CONTRACT JOURNAL

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,241 82nd YEAR

THURSDAY, OCTOBER 6, 1960

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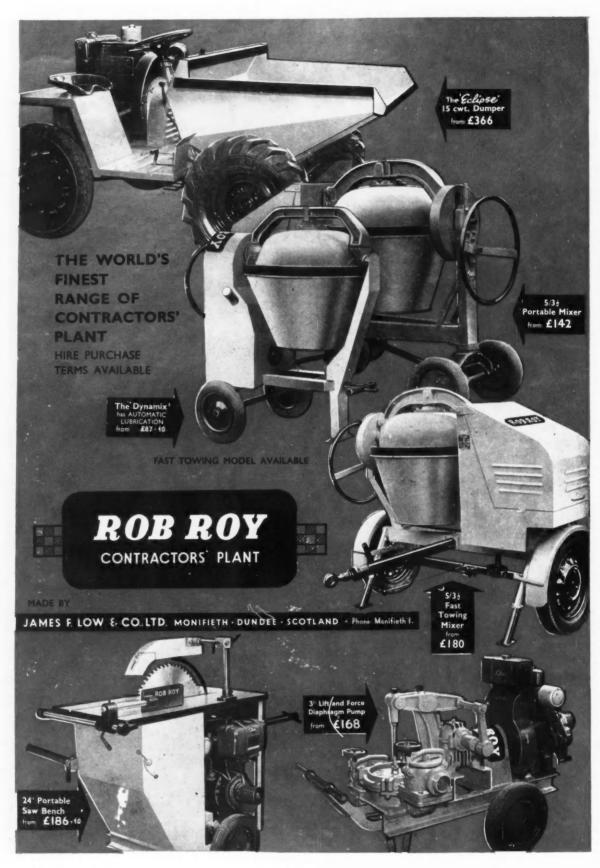


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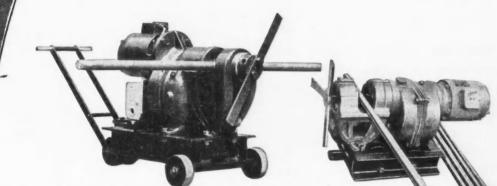
The Loadascreen saves time, labour and costs - more profit in your pocket!



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BOTH CROP MULTIPLES OF SMALLER BARS.

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Why you should specify

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THE "SILKSTONE" FLUSH DOOR

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both large

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(apart from its name)

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Get a ROLPANIT to speed the job and lower the cost-you'll be as proud of it as we are!

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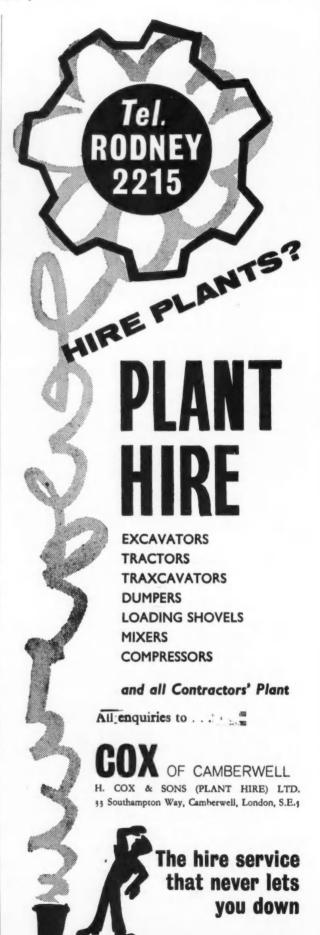
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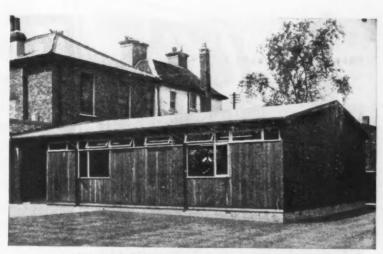




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Schools
Libraries
Shops
Hospitals
Offices
Canteens Estate Offices

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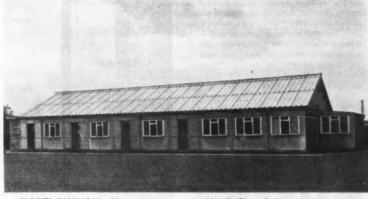
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DINING HALL FOR THE SACRED HEART CONVENT SCHOOL, HITCHIN, HERTS.

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SPORTS PAVILION. Photograph by courtesy of W. T. Glover & Co., Ltd., Manchester.

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- 6

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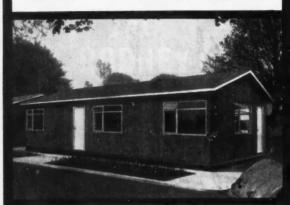
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for long-running reliability

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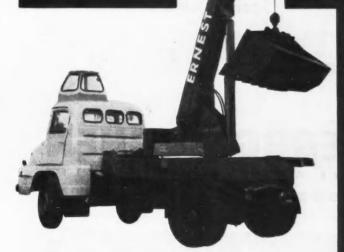


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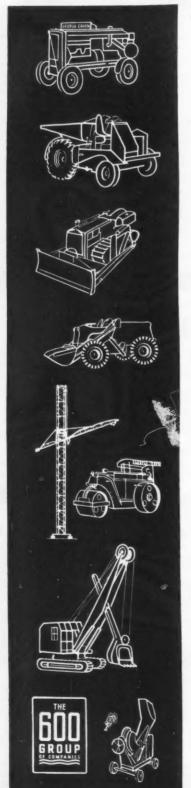


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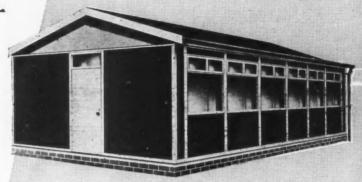
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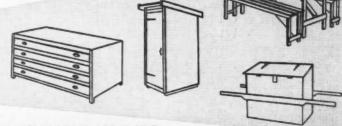
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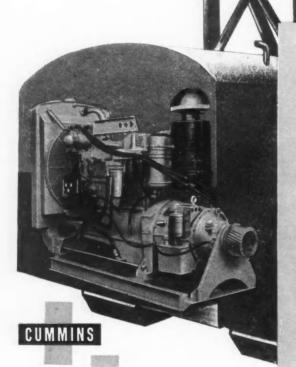
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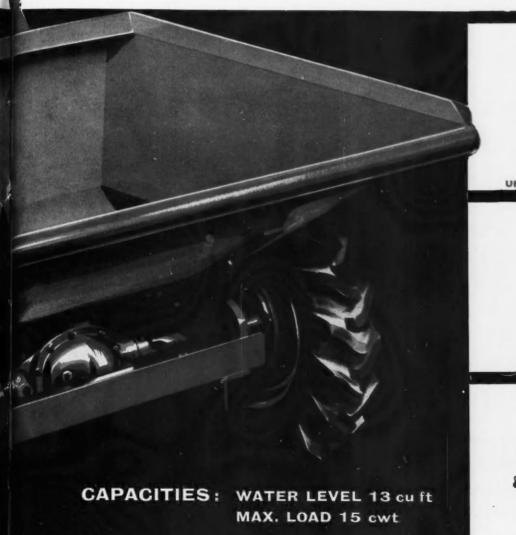




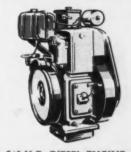
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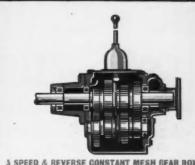
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Firestone Nylon Earthmover tyres are built to keep construction jobs up to schedule. They have the extra traction and extra strength needed to speed up the work and reduce tyre costs. They cope with the toughest grading, construction or open cast mining operations.

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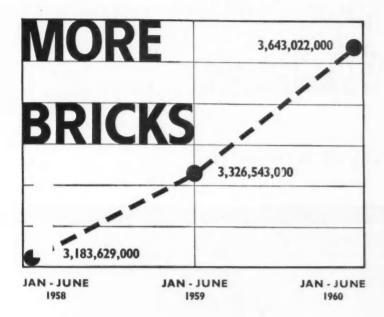
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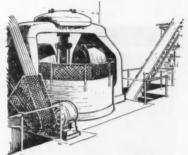
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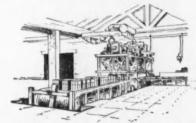
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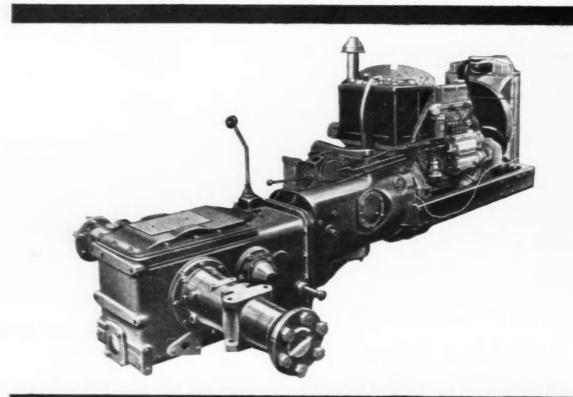
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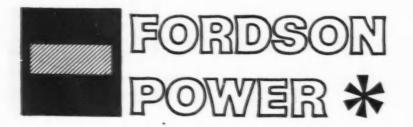
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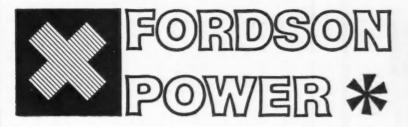
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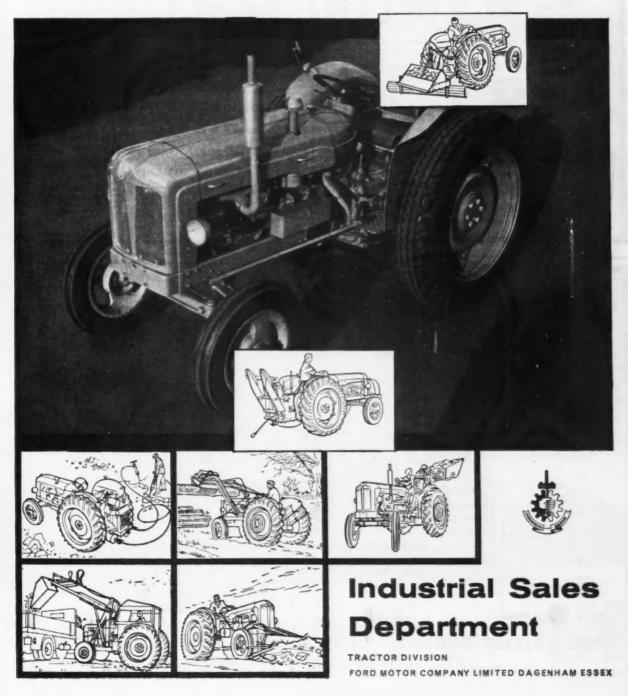
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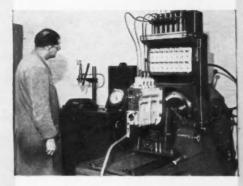
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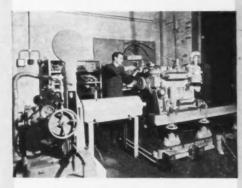
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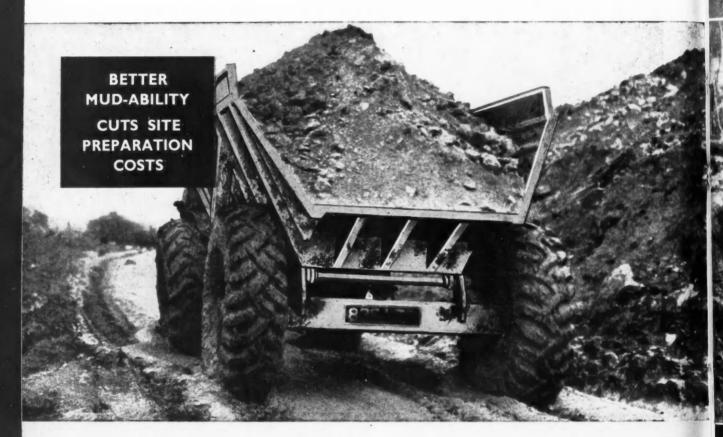
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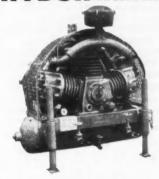
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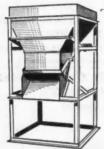
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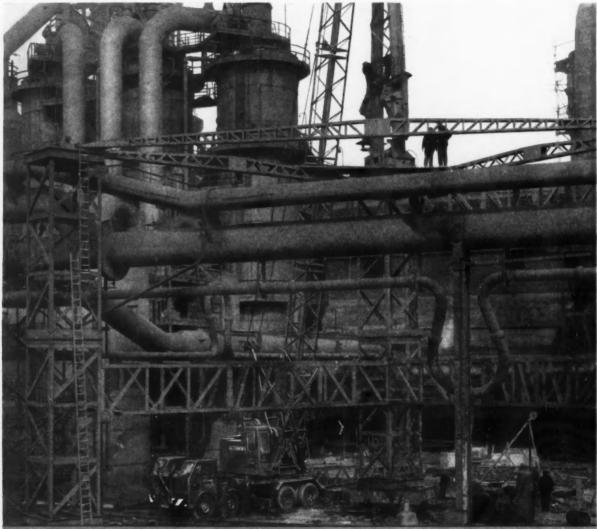
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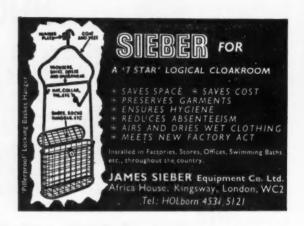
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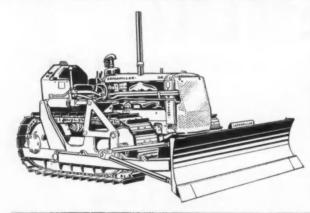
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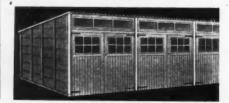
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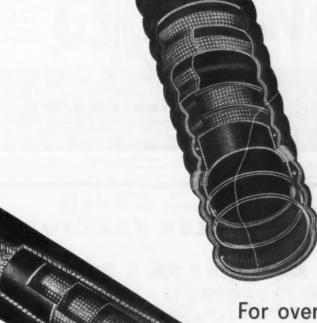
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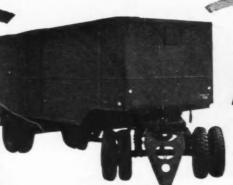
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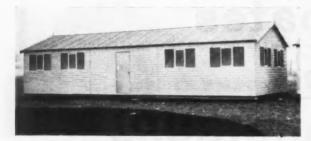
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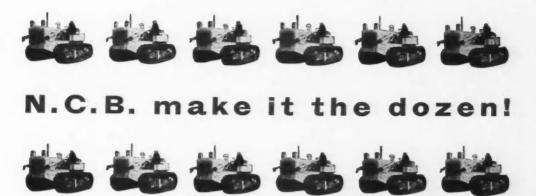
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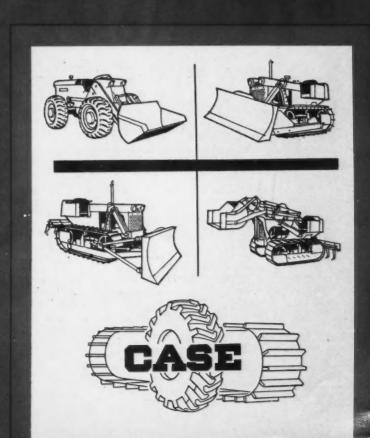
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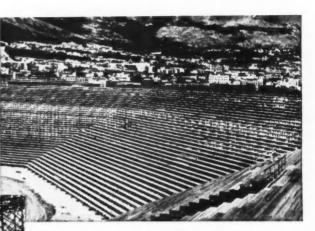
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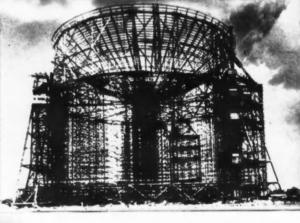


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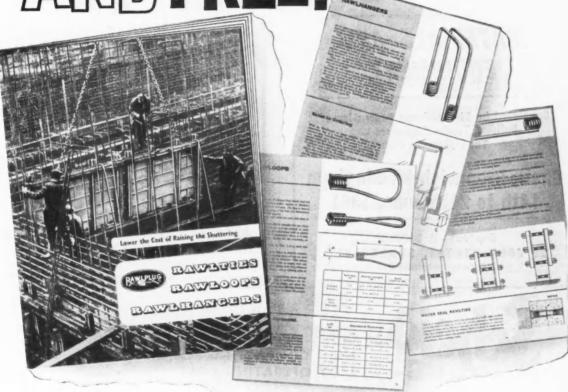


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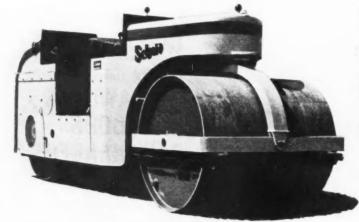
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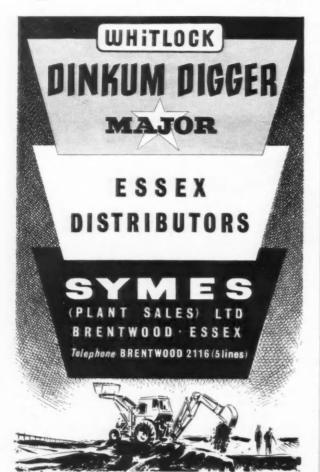
Apart from the speed and ease with which skips can be moved and emptied, the MULTI-BUCKET UNIT economises in vehicle time by moving one skip whilst others are being filled. The model illustrated is a standard Multi-Bucket Unit mounted on a 7-ton Bedford chassis for Geo. C. Cross of Southall. Payload: 7 tons.

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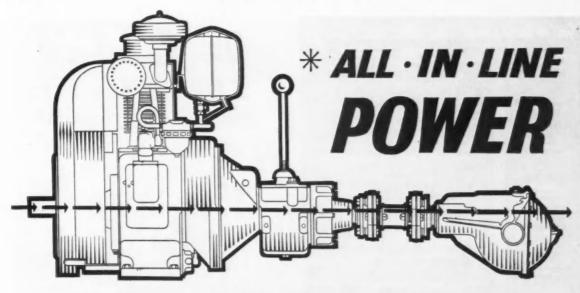
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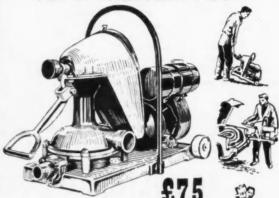
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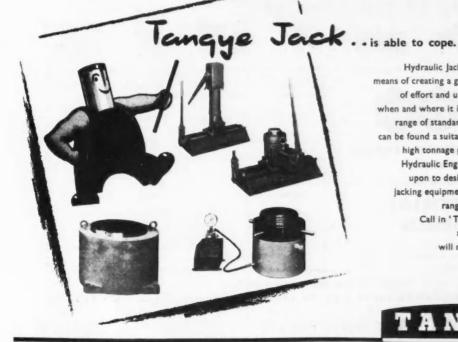
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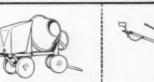
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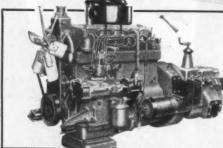


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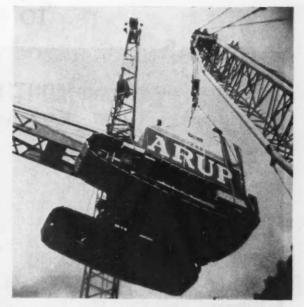


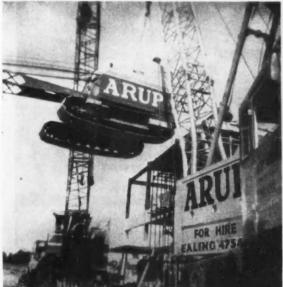
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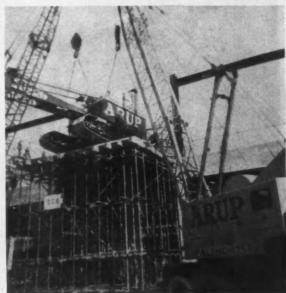
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September, 1960.

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Council Offices.

Council Offices, Windsor Road, Slough, Bucks. 20th September, 1960.

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READVERTISED.

READVERTISED.

The above-named Council invite TENDERS from experienced and responsible contractors for the CONSTRUCTION of EXTENSIONS to the WENDOVER SEWAGE DISPOSAL WORKS, comprising Balancing Filters, Humus Tanks, Sludge Drying Beds, Sludge Pumping Station, Garage, etc., and General Site Works. Drawings, Specifications and Bill of Quantities can be seen at the offices of the Council's Consulting Filters, Humus Tanks, Nottingham, and copies of the Plan, Specification and Bill of Quantities can be been at the offices of the Council's Consulting Filters, Human Tanks, Nottingham, and copies of the Plan, Specification and Bill of Quantities can be obtained from them, on deposit of Five Guineas (by cheque payable to the Avlesbury R.D.C.), which will be the proposed to the Avlesbury R.D.C.), which will be the wards withdrawn on the return of all documents or the contractor for the purpose of making up nis Tender within seven days of a notice informing him that a Tender has been accepted.

Scaled Tenders, endorsed "Mendover Sewage Williams and Contractor of the Contract Drawlings may be inspected at the offices of the Council's Surveyor during normal office hours by appointment.

A. EDGAR TOY.

A. EDGAR TOY, Clerk of the Council. Council Offices, 43 Buckingham Street, Aylesbury, Bucks.

Council Offices, Wem, Salop.

CONTRACTS

WILTSHIRE COUNTY COUNCIL.

TENDERS are invited for the WIDENING and RE-LIGNMENT of MELKSHAM-LYNEHAM ROAD, 3102, between Westbrook Farm and Nonsuch. The works comprise the Excavation for, and Con-uction of. New Carriageway approx. 900 lin. yd, sether with Surface Water Drainage, Fancing, deligning, etc.

The works comprise the Excavation for, and ConThe works comprise the Excavation for, and ConThe works comprise the Excavation for, and Contogether with
Hedging, exHedging, exSurveyor, County Hall, Trowbridge, on payment of
£2 deposit, returnable om receipt of a bona-fide
Fender. Drawlings may be inspected by appointment
are the provided of the provided o

REDFORDSHIRE COUNTY COUNCIL. LEIGHTON BUZZARD-HEMEL HEMPSTEAD ROAD, 8.486.

IMPROVEMENT AT BILLINGTON HILL.

IMPROVEMENT AT BILLINGTON HILL.

TENDERS are invited for the WIDENING of the ABOVE ROAD over a length of 200yd.

The works consist of Excavation in Banks and Haunching to Existing Road, using Broken Stone and Lean-mix Concrete Foundation with Tarred Macadam and Asphalt Surfacing, together with Kerbing, Drainage, and Fencing Works.

Copies of the Conditions of Contract, Specification Copies of the Conditions of Contract, Specification of the County Surveyor, Dents Road, Bedford from the County Surveyor, Dents Road, Bedford will be retunded on receipt of a bona-fide Tender or return of the documents before the closing date.

The Drawings may be examined at the above Office by appointment, during working hours.

Tenders must be returned to the Clerk of the Council, Shire Hall, Bedford, by FRIDAY, 21st Council do not bind themselves to accept the lowest or any Tender which may be received.

SEORGE BREWIS, Clerk of the County Council.

BOROUGH OF HARROGATE.

PARLIAMENT STREET IMPROVEMENT.

TENDERS are invited for the DEMOLITION of EXISTING SHOP CANOPIES in Parliament Street (180ft. x 15ft. x 14ft. high approx.), together with the SUPPLY and FIXING of NEW PATENT GLAZED CANOPIES (158ft. x 10ft. x 14ft. high approx.). Specifications and Forms of Tender may be obtained from the understance.

from the undersigned.

Tenders must be received not later than 9 a.m.
on MONDAY, 17th October, 1960.
The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS, Borough Engineer.

Municipal Offices,
Harrogate.
26th September, 1960.

BOROUGH OF ROMFORD.

IMPROVEMENT TO LOWER BEDFORDS ROAD

TENDERS are invited for the WIDENING and SURFACING of PART of LOWER BEDFORDS ROAD, comprising piping approx. 250 lin. yd. Ditch, 750 sq. yd. Concrete Haunch, 250 lin. yd. Kerb, 200 tons Bituminous Concrete as Regulating Base Course, 1,700 sq. yd. Jain. Dense Bitumen Macadam Iaid Iin. Hick, and 500 sq. yd. Footway Construction, together with the property of the provided by the TOWN CLERK of a bona-fide Tender, in the envelope provided, by 17th OCTOBER.

CITY OF ROCHESTER.

MAKING-UP OF OLD PATTENS LANE-STAGE I. (City Way to Boundary Road.)

CONSTRUCTION OF ROADS AND SEWERS.

CONSTRUCTION OF ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION of approx. 850 sq. yd. of HARDCORE TARMACADAM CARRIAGEWAY, Kerbing, Precast Concrete Slad Paving, IUI, Standard Control of Cont

o. the Corporation do not bind themselves to accept lowest or any Tender. PHILIP H. BARTLETT, Town Clerk.

Guidhall,
Rochester,
Kent.
19th September, 1960.
WEM URBAN DISTRICT COUNCIL.

HOUSING DEVELOPMENT-LOWE HILL ROAD,

WEM.

FIXED-PRICE TENDERS are invited for the ERECTION and COMPLETION at Lowe Hill. Wem, of TWO 3-STOREY BLOCKS OF FLASS containing 30 Units, 18 Dwelling Houses and 12 Garages, together with Site Works comprising approx. 1,100 super. yd. of Tarmac Carriageway and Footpaths, and 2,300 super. yd. run approx. of 9lm, 6lm, and 4lm. Sewers, etc., run approx. of 9lm, 6lm, and 4lm. Sewers, etc., run approx. AND ASSOCIATES, Chartered Architects, Richmond House, 123 Boughton, Chester, on payment of a deposit of £5 Ss., which will be refunded on receipt of bona-inde Tenders, to the standard of the sewelopes and orsed the signed by 28th OCTOBER; 1960.

The Council do not bind themselves to accept the lowest or any Tenders.

A. PEARSON, Clerk of the Council.

1960.
The Council are not bound to accept any Tender.
D. MATHIESON.
Town Clerk.

Town Hall, Hounslow, Middx.

BOROUGHOF HESTON AND ISLEWORTH.

REPLANNING OF KITCHEN—CRANFORD JUNIOR SCHOOL.

TENDERS are invited for ALTERATION WORKS to EXISTING KITCHEN at the ABOVE SCHOOL. Firms wishing to tender should make application to the Borough Engineer and Surveyor, 88 Lampton Road. Hourslow.

Tender documents will be forwarded on or about 3rd October.

Tenders must be sealed in the envelope provided, and received by me not later than 10 a.m. or 24th OCTOBER, 1960.

D. MATHIESON.

D. MATHIESON,

Town Hall, Hounslow, Middx

BOROUGH OF ALTRINCHAM. HIGHWAYS ACT, 1959-PART IX. CODE OF 1892.

TENDERS are invited for the MAKING-UP of GERRARD AVENUE (756tt.), LEICESTER AVENUE (802ft.), PRINCESS STREET (part) (235ft.), and DEANE AVENUE (246ft.), Altrinoin-morm of Tender may be obtained from, and Drawings inspected at, the office of the Borough Surveyor, Town Hall, Altrincham, upon payment of a deposit of Two Guineas, made payable to the Borough Surveyor, Town Hall, Altrincham, upon payment of a deposit of Two Guineas, made payable to the Borough Treasurer.

Tenders must be enclosed in the envelope provided. The undersigned not later than 12 Noon on MONDAY, 31st October, 1960.

The Council does not bind itself to accept the lowest or any Tender.

Town Mail

E. GRAHAM THOMAS, Town Clerk. Town Hall, Altrincham. September, 1960.

WHITCHURCH URBAN DISTRICT

STREET LIGHTING SCHEME-PHASE 1.

TENDERS are invited for DISMANTLING EXISTING LIGHTING POINTS, SUPPLYING, DELIVERING, ERECTING, WIRING and FITTING of 45 25ft.
CONCRETE COLUMNS with 140-W Sodium Discharge Lamps; 59 15ft. CONCRETE COLUMNS with 85-W Whitchurch, in accordance with the Plan, Schedule and Specification prepared by the Council's Engineer and Surveyor, from whom Tender documents are obtainable upon receipt of a cheque for Two Guineas, being a deposit which will be returned upon receipt of a cheque for Two Guineas, being a deposit which will be returned upon receipt of a cheque for Two Guineas.

of a bona-noe remove documents.

Tenders, in plain sealed envelopes endorsed "Street Lighting," to be delivered to the Clerk of the Council not later than 12 Noon on WEDNESDAY, The Council do not bind themselves to accept the lowest or any Tender.

Paul's Moss, FRANK CLAYTON, Paul's Moss, Clerk of the Council.

Pau's Moss, Clerk Dodington, Whitchurch, Shropshire. 26th September, 1960.

SUPPLEMENT

COUNTY BOROUGH OF SOUTHAMPTON.

Southampton County Borough Council invites
TENDERS for the FOLLOWING CONTRACTS on Bills
of Quantities available early in October:
CONTRACT B.556.—95 Traditional Houses—
Thornhill Estate.—4 Traditional Houses—
Gover Road, Millibrook,
CONTRACT B.556.—95 Traditional Houses—
Gover Road, Millibrook,
CONTRACT B.556.—95 Traditional Construction in Seven 5-storey Blocks,
Types A.5 and B.5—Thornhill Estate.
Application for Tender documents should be received by the BOROUGH ENGINEER, Civic Centre,
Southampton, not later than 10 a.m. on MONDAY,
10th October, 1960.

BOROUGH OF BRIDGWATER.

COMPLETION OF FOOTPATHS AND WESTOVER GREEN.

WESTOVER GREEN.

TENDERS are invited for the CONSTRUCTION of approx. 450 sq. yd. of TARMACADAM FOOTPATH, the LAYING of 200 lin. yd. of CONCRETE BACK. EDGING, and the TARMACADAM SURFACING of 900 sq. yd. of CARRIAGEWAY.

Full particular Surveyor, Town Hall, Bridgwater, on payment of 6.2 2s. deposit.

Closing date for receipt of Tenders—10 a.m., SATURDAY, 15th October, 1950.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. CLIDERO. H. A. CLIDERO. Town Clerk.

9

BRIDGNORTH RURAL DISTRICT

HIGHLEY SEWERAGE AND SEWAGE DISPOSAL. CONTRACT NO. 3.

CONTRACT NO. 3.

TENDERS are invited for the CONSTRUCTION of about 1.550 lin. vd. of SPUN-IRON and GLAZED STONEWARE PIES SERVICE AND A SPUN-IRON AND GLAZED PIES SERVICE AND A SPUN-IRON OF THE CONTRACT OF THE SERVICE SERVICE AND A SERVICE AN

receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at my office not later than Noon on the 18th NOVEMBER, 1960.

The Council does not undertake to accept the lowest or any Tender.

G. C. HARRIS.

G. C. HARRIS. Clerk of the Council. Westgate, Bridgnorth. 26th September, 1960.

A MERSHAM RURAL COUNCIL. DISTRICT

ENGINEER AND SURVEYOR'S DEPARTMENT. CARAVAN SITE-WHELPLEY HILL.

CARAYAN SITE—WHELPLEY HILL.

in connection with the provision of services and amenities at the ABOYE CARAVAN SITE. The Council Invite TENDERS for the FOLLOWING:— the Council Invite TENDERS for the FOLLOWING:— the Council Invite TENDERS for the FOLLOWING:— the Construction of Hard-core Roads, Paths and Hardstandings for 76 Caravans, the Providing and Laying 2,500yd. of Polythene Water Services, the Pippes, and the Provision and Erection of Chain link and Palisade Fencing, together with ancillary works. The Construction of an Underground Sewage Disposal Works to CONTRACT No. 12.— The Construction of an Underground Sewage Disposal Works to Store, and the Frection of a Perabricated Store, and the Erection of a Perabricated Council, 42 High Street, Amersham, on payment of \$2 2s. for each set of documents, which will be returned on receipt of a bona-fined Tender. Contractors should intimate which contract they are interested in. Tenders will be required to be submitted on the form supplied by the Council, and in the envelope provided, endorsed Caravan Site—Whelpley Hill—Contract No. 1 or 2." 2s the case may be, and be over the council do not bind themselves to accept the lowest or any Tender.

H. E. BUXTON.

Clerk to the Council.

H. E. BUXTON, Clerk to the Council.

42 High treet, Amersham, Bucks.

AMERSHAM RURAL DISTRICT

ENGINEER AND SURVEYOR'S DEPARTMENT. REMFDIAL ROADWORKS AT SIBLEYS RISE, SOUTH HEATH AND SNOWHILL COTTAGES, ASHLEY GREEN.

ASMLEY GREEN.

TENDERS are invited for the ABOVE REMEDIAL ROADWORKS, comprising Breaking-out and Re-laying Damaged Kerbs, the Patching and Resurfacing of the Carriageway and Footpaths with Co'd Asphalt, together with the Provision of additional Surface Water Drainage. The area comprises approx. 1,500 models of the Comment of Additional Surface Water Drainage. The area comprises approx. 3,500 models of the Comment of Additional Surface Water Drainage. The appropriate documents may be obtained from MR. J. GODBEHERF. A.M.I.Mun.E., Engineer and Surveyor, Amersham Rural District Council. 42 High Street, Amersham, Bucks., on payment of £1, which will be returned on receipt of a bona-fide Tender. Tenders must be submitted on the forms suboiler by the Council, and in the envelope provided, endorsed "Remedial Roadworks—S.H. and A.G.," and be received by the undersigned not later than First Post on Zeth OCTOBER, 1960.

The Council do not bind themselves to accept the Iwest or any Tender.

K. B. BUXTON.

Clerk to the Council.

H. E. BUXTON, Clerk to the Council. Council Offices. 42 High Street. Amersham, Bucks.

CONTRACTS

C.198, SUNDON ROAD, HOUGHTON REGIS-IMPROVEMENT FRONTING L.C.C. ESTATE.

IMPROVEMENT FRONTING L.C. ESTATE.

TENDERS are invited for the ABOVE WORKS.
Which consist of site Clearance, Laying of approx.
Together with Manholes, and the Construction of approx. 2,000 super, vd. of Tarmacadam Footpaths.
Drawings and Standard Conditions of Contract may be inspected at the Office of the County Surveyor, Dents Road. Bedford the Specification, Bills of Quantities and Form of Tender may be obtained on payment of a deposit of Two Guineas, which will be returned only on receipt of a bona-fide Tender and the return of all documents.

21st October, 1960.
The Council do not bind themselves to accept the lowest or any Tender.

GEORGE BREWIS,

GEORGE BREWIS, Clerk of the County Council. Shire Hall,

BEDFORDSHIRE COUNTY COUNCIL. LONDON TO HOLYHEAD TRUNK ROAD, A.S. IMPROVEMENT AT JUNCTION WITH C.193

TENDERS are invited for the REPLACING of a CONCRETE ROAD by a NEW FLEXIBLE PAVEMENT at the ABOVE SITE.

The works consist of Scarifying the Existing Tarmac The works of Scarifying the Taking-out of the Bays; Excavating for an average Depth with a Road of Flexible Construction.

The length of road to be improved is 140yd, the width being 30ft.

Copies of the Conditions of Contract, Specification and Bill of Quantities can be obtained from the width being 30ft.

Copies of the Conditions of Contract, Specification and Bill of Quantities can be obtained from the width being 30ft.

The Drawings may be examined at the above Office by appointment, during working hours.

Cenders must be returned to the CLERK OF THE Cottobe 1980.

The Council do not bind themselves to accept the lowest or any Tender which may be received.

GEORGE BREWIS.

Clerk of the County Council.

GEORGE BREWIS.
Clerk of the County Council.

CITY OF STOKE - ON - TRENT. HIGHWAYS ACT. 1959.

MAKING-UP OF PRIVATE STREETS:

(a) SEVERN STREET, COBRIDGE — CONTRACT
NO. 903.

NO. 904.

WINDDERMERE STREET, COBRIDGE — CONTRACT
CONTRACT NO. 905.

(b) SERVICE ROAD, OFF
MALTHOUSE ROAD, BUCKNALL—CONTRACT
NO. 646.

STUART AVENUE, TRENTHAM — CONTRACT
NO. 919.

TIDESWELL ROAD, LONGTON — CONTRACT
NO. 926.

NO. 926.

The CORPORATION invite TENDERS for the MAKING-UP of the ABOVE STREETS.

Drawings and Conditions of Contratc may be seen and Bills of Quantities and Specifications obtained from the City Surveyor's Department, Town Hall, Stoke-on-Tient, on payment of \$2 each in respect of the Company of the Compa

HARRY TAYLOR. Town Clerk

CITY OF NEW SARUM. STRATFORD ROAD, SALISBURY.

TENDERS are invited for the CONSTRUCTION of 10 HOUSES and Four FLATS, together with Outbuildings. Pavings, Drainage and anciliary works at STRATFORD ROAD. SALISBURY. Tenders are to be on a fixed-price basis and on Bills of Quantities, which will be available on SATURDAY. 8th October, 1960. Copies of the Bills of Quantities and Form of Tender can be obtained from the City Engineer. The Council Mouse, Bourne HII. Salisbury.

HII. Salisbury.

Company of the Salisbury.

GEORGE REICHARDSON.

GEORGE RICHARDSON.

GEORGE RICHARDSON, Town Clerk CHISLEHURST AND SIDCUP URBAN

NORTH CRAY PLACE ESTATE-

Names and addresses of contractors desirous of TENDERING for the CONSTRUCTION of 6.000 sq. yd. of CONCRETE ROADS and 1.650 li. yd. of 18in. 15in., 9in. and 6in. SEWERS, to ENGINEER AND SURVEYOR, Manor House, Sidcup, Kent, with Two Guinnas deposit, by 12th OCTOBER, 1960.

HAVERFORDWEST RURAL DISTRICT

MILLIN WATER EXTENSION.

MILLIN WATER EXTENSION.

TENDERS are invited from competent civil engineering contractors for CARRYING OUT the ABOVE SECONTACTOR OF CARRYING OUT the ABOVE SECONTACTOR OF CARRYING OUT THE ABOVE SECONTACTOR OF CONNECTIONS SERVICE CONNECTIONS AND ASSESSION OF THE ABOVE SECONTACTOR OF CONNECTION OF

HENRY J. DICKMAN, Clerk of the Council. 24th September, 1960.

CONTRACTS

BEDFORDSHIRE COUNTY COUNCIL. BOROUGH OF ELLESMERE PORT. CONTRACT NO. 298.

34 GROUP "A" ELECTRIC STREET LAMPS— CHESTER/BIRKENHEAD TRUNK ROAD, A.41.

REVISED.

TENDERS are invited for the PROVISION and ERECTION of 34 CONCRETE GROUP "A" ELECTRIC STREET LAMPS complete on the ABOVE RODU. Contract documents obtainable from the Borouph Engineer and Surveyor, Queen Street, Ellesmere Port, on the 8th October, 1960.

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by Post by not later than 5 p.m. on MONDAY, the 24th October,

vided, must support the control of the council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE, Town Clerk.

CITY AND COUNTY OF BRISTOL.

TENDERS invited for SUPPLY of UNDERMENTIONED MATERIALS during the 12 months 1st January, 1961, to 31st December, 1961:—
Electric Lamps, Batteries.
Transformers and Capacitors.
Electrical Sundries.
Eccept. Cables.
Eccept. C

NEWBRIDGE IMPROVEMENT.

NEWBRIDGE IMPROVEMENT.

TENDERS are invited for the REALIGNMENT of the APPROACH ROAD to the NEW BR.DGE. Bath. The works include the Erection of Concrete Retaining Walis: Extension of Cattle Arches: approx. 1,000 cu. yd. of Fill, and the Construction of 1,620 sq. yd. of Carriageway.

Plans may be inspected at, and copies of the General Conditions of Contract. Specification, Bill of Quantitles and Form of Tender may be obtained from, the Office of the City and Waterworks Engineer, Guildhall, Bath, on payment of a deposit of two bona-fide Tender not subsequently withdrawn.

Funders must be delivered, in the envelope provided, not later than 10 a.m., SATURDAY, 15th October, 1960, to the Town Clerk, Guildhall, Bath. The Corporation do not bind themselves to accept the lowest or any Tender.

JARED E. DIXON,
Town Clerk.

Guildhail, Bath. 28th September, 1960.

PERSHORE RURAL DISTRICT COUNCIL.

REGIONAL SEWERAGE AND SEWAGE DISPOSAL CONTRACT NO. 1.

TENDERS, on a FIXED-PRICE BASIS, are invited from experienced public works contractors for the CONSTRUCTION of approx. 360 lin. vd. of 9jin. and 6jin. diameter 180N SEWERS, 1212 miles of 21in. to 9jin. SEWERS, together with Concrete Tube Manholes, Five Sewage Pumping Stations, and Sewege Disposal Works, comprising Detritus Tanks, Settling Tanks, Bacterial Fumping Station, and other incidental Works. The Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers. MESSRS. WILLCOX, RAIKES AND MARSHAL 33 Great harles Street Birling Consulting Engineers. MESSRS. WILLCOX, RAIKES AND MARSHAL 33 Great harles Street Birlingham, 21 in 151 Sts. Cheque only, made payable to the Council's which will be refunded on receipt of a bona-fide Tender supported by Priced Bills of Quantities, if requested, and the return of all forms on MONDAY. Sth December, 1980. The Council do not blind themselves to accept the lowest or any Tender.

W. G. TRAPP.

Clerk of the Council.

Pershore.

Rural District Council Offices, Pershore, Worcs. 26th September, 1960.

AYLESBURY RURAL

MAIN DRAINAGE OF HARDWICK AND WEEDON A20/1 CONTRACT 1.

READVERTISED.

TO CIVIL ENGINEERING AND PUBLIC WORKS

The Aylenbury Rural District Council invites TENDERS from experienced contractors for the CONSTRUCTION of aparox. Three Miles of SMALL DIAMETER SEWERS, a SEWAGE PUMPING STATION, the CONSTRUCTION of a SEWAGE DISPOSAL WORKS, and other ancillary works.

Particulars and Specification may be obtained, and Plans may be inspected, at the Offices of the Consulting Engineers, MESSRS, HOWARD HUMPHREYS AND SONS, West Street, Epsom, on and from Monday, 3rd October, 1960, buttle Filday, 21st October, 1960, buttle

A. EDGAR TOY, Clerk of the Council.

Council Offices, 43 Buckingham Street, Aylesbury, September, 1960.

Council Offices.
11 Guild Street,
Stratford-on-Avon,
Warwickshire.
27th September, 1960.

A.I.A.S., A.M.I.P.H.E., 3 IrreAvon
Avon
Avon
Applications for these documents must be accompanied by a deposit of £2 2s. which will be refunded
on receipt of a bona-fide Tender not subsequently
withdrawn.
Sealed Tenders, in the envelope provided, must be
delivered to the undersigned not lafer than 12 Noon
on THURSDAY, 17th November, 1960.
The Council do not blind themselves to accept the
lowest or any Tender.

D. W. NEWPORT,
Clerk of the Council.

PRESTON-ON-STOUR.

FIXED-PRICE TENDERS are invited for the LAYING of approx. 800 lin. vd. of 6in. diameter STONEWARE FOUL SEWER, 680 lin. vd. of 4in. diameter SPUN-IRON RISING MAIN and the CONSTRUCTION of 18 CONCRETE MANHOLES, SEWAGE EIECTOR STATION and SMALL SEWAGE DISPOSAL WORKS, comprising Sedimentation Tanks, Filter Bed, Humus Tank and Sludge Drying Beds, and other ancillary Works.

Contract, Specification and Gister Conditions of Section 19 Contract Co

STRATFORD-ON-AVON RURAL DISTRICT SEWERAGE AND SEWAGE DISPOSAL SCHEME. PRESTON-ON-STOUR.

Ber House, 158 Ber Street, Norwich, Norfolk, NOR, 568.

LAYING of about 12,000/00, or an end and spound and spo

BARNHAM BROOM, ETC., WATER SUPPLY. The above-named Council Invite TENDERS from responsible contractors for the PROVISION and LAYING of about 12,000vd. of 4in. and 3in, dia. SPUN-IRON PIPE WATER MAINS at Barnham Broom, etc.

FOREHOE AND HENSTEAD RURAL

The Council invite TENDERS for the SUPPLY of LIGHTING COLUMNATION. LAMPS and A Particulars and Form at Tender may be obtained from the CLERK OF THE COUNCIL, Tudor Hall, Rose Lane, Norwich. (NOR. 118.)

TENDERS FOR STREET LIGHTING EQUIPMENT.

ST. FAITH'S AND AYLSHAM RURAL

TENDERS are invited for the EBECTION of 12 ELAN in Wo Envited for the EBECTION of 12 ELAN in Wo Envited for the EBECTION of 12 ELAN in Wolfer and NE DETACLED BUNGALOW. If the ESTOREYS and ONE AND IN THE ESTOREYS AND ESTORE

Town Hall, Weston-super-Mare. October, 1960. HAVANT AND WATERLOO URBAN

R. G. LICKFOLD. Town Clerk.

BYRON ROAD RECREATION GROUND.

FIXED-PRICE TENDERS are invited from contractors experienced in similar works for the CONSTRUCTION of a RECREATION GROUND of approx. 2.4 acres. The Works include Drainage, Levelling, Cultivating, Seeding, and other ancillary items.

The Specification, Bill of Quantities and Form of The Specification, Bill of Quantities and Specification of The Specification of The Contract Samined at the office of the Borough Engineer, on payment of a deposit of 2.2 s., returnable on the receipt of a bona-fide Tender.

Tenders, sealed in the envelope provided, must be delighted to the specific of the Specific

BYRON ROAD RECREATION GROUND.

ROBERT POTTER, Town Clerk. Town Hall, Chorley, 27th September, 1960. BOROUGH OF WESTON-SUPER-MARE.

Tenders, suitably endorsed, should be returned to the undersigned not later than the 21st OCTOBER, 1950.

TENDERS are invited for the DEMOLITION of approx. 21 PROPERTIES in ELDON STREET and ELLIOTT STREET.

Applications for the Tender documents should be made to the Borough Engineer, Town Hall, Chorley, accompanied by a deposit of £2 25., which will be returned on receipt of a bona-ride Tender not subsequently withdrawn. Conditions of Contract and Drawings may be inspected during normal office hours.

Tenders, suitably endorsed, should be returned to Tenders, suitably endorsed, should be returned to

BOROUGH OF CHORLEY. DEMOLITION WORKS.

CONTRACTS

Rural Council House, Chesterfield.

not subsequently withdrawn, documents.

Tenders, in a plain sealed envelope endorsed "Gleathes-Frend Trunk Sewer." should be returned to the undersloned by not later than 10 a.m. on WEDNESDAY, 26th October, 1964.

H. O. HAWKINS,

Clerk of the Council.

TENDERS are Invited for the CONSTRUCTION of the FOLLOWING SCHEME: GLEADLESS-FORT TRUNK SEWER, ECKINGTON, commelsing aboves, 100 flip, vd. of 8in, diameter sewer, 2,877 lin, vd. of 9vn, diameter sewer, 2,877 lin, vd. of 9vn, diameter sewer, 7,876 lin, vd. of 17in, Sewer, 65 Manholes, a Storm Overflow Chember, and incidental Works. Plans and General Conditions of Contract may be seen at the Englandia Department, Bills of Outpitties, seen at the Englandia Department, Bills of Outpitties, application to the Council'is Englander and Surveyor, I. B. WIKELEY, M.Eng., M.I.C.E., M.I.Mon.E., Barrister at Law, Rural Council House, Safernate, Chesterfield, on Lawment of a deposit of two Guineas by checus, refundable on receipt of a bona-fiel Tender not uninequently withdrawn, together with all the

GLYNDIONES. Clerk of the R.D.C. R.D.C. Offices, Lianfyllin, Montgomerys.

TENDERS are invited for the CONSTRUCTION of about 1,400 lin, wid. ASBESTOS-CEMENT WATER MALNS, 41n in dis. together with intake Works. Settlement Tank, Filter House, and incidental works, in accordance with the Drawings. Specification and Bills of Quantitles prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row. Birmingham, 2 metal and the General Conditions of Contract, Specification, Billis of Quantitles and Form of Tender may be obtained from the Offices of the undersigned, or of the Engineers, on or after the 31st October, 1950, on payment of adeposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all selections of the Conditions of the Condition

R U R A L DISTRICT LLANSANTFFRAID, ETC., WATER SUPPLY EXTENSIONS. STAGE 1.

Town Hall, Friern Barnet, N.11. 28th September, 1960. LANFYLLIN

TENDERS are invited for the ERECTION of TWO SEPARATE SITES of EIGHT and 25 LOCK-UP GARAGES.

GANGES ARE SITES OF EIGHT and 25 LOCK-UP GOLDERS ARE SITES OF EIGHT and 25 LOCK-UP GOLDERS ARE SITES OF EIGHT AND A SECONDARY OF THE SITES OF EIGHT AND A SECONDARY OF THE SITES OF THE S

ERECTION OF 33 LOCK-UP GARAGES.

Town Hall, Farnborough, Hants. FRIERN BARNET URBAN DISTRICT

Retaining Walls, and works in connection with the Abuve works in connection with the Abuve STREET.

Specifications, Bills of Quantities and Forms of Tender for this Contract may be obtained from the Council's Engineer and Surveyor, Municipal Offices, and Surveyor, Municipal Offices, and Surveyor and being the second of the council of the second of th

TENDERS are invited for the CONSTRUCTION as aborox. 2,520 sq. yd. at TARMACADAM FOOTWAY. 1980 sq. yd. of TARMACADAM FOOTWAY. 750 lin. yd. of Kerbing, 630 lin. yd. of 6in. dia. to 'sin. dia. Surface Water Sewers, Guilles, Manholes, Retaining Walfs, Site Clearance, and other incidental repersers connection with the ABOVE PRIVATE

TO ROAD CONTRACTORS. HIGHWAYS ACT, 1959. MAYING-UP CLOCKHOUSE ROAD UNDER THE PRIVATE STREET WORKS CODE OF 1892.

Municipal Offices, Sheen Lane, S.W.14. 27th September, 1960. FARNBOROUGH URBAN DISTRICT

fed, not later than Piras Posts, 1960, er, 1960, W. R. SHEPHERD, M.I.Mun.E., A.M.I.C.E., Borough Engineer and Surveyor.

TENDERS are invited from experienced civil engineering contractors for the ABOVE WORKS. The works consist of 167 lin. vd. of 9in. dia. Sait Glazed Stoneware Pipe, together with the Construction of Manholes and anciliary works. The Form of Tender, Bill of Quantities and Specific Construction of Manholes and anciliary works. Specific Construction of Manholes and Specific Construction of Wanning Construction of Co

BOROUGH OF BARNES. CHARLES STREET-SURFACE WATER SEWER.

the CECIL ROAD FLYOVER over the BARNES. BY-PASS in the Urban District of Putters Bar, Middlesex.
Mi

CECIL ROAD FLYOVER-BARNET BY-PASS. TENDERS are invited for the CONSTRUCTION of the CECIL ROAD FLYOVER over the BARNET BY-PASS in the Urban District of Putters Bar,

MINISTRY OF TRANSPORT. LONDON-EDINBURGH-THURSO TRUNK ROAD, A.1.

53

CONTRACTS

THE CONTRACT JOURNAL

N16/2-

Municipal Buildings, Newbury, Berks. October, 1960.

CONTRACTS

BOROUGH OF NEWBURY.

LONDON ROAD PUMPING STATION.

N16/2—CONTRACT M8.

FIRM-PRICE TENDERS are invited for the SUPPLY and ERECTION at LONDON ROAD PUMPING STATION of TWO V.S. CENTRIFUGAL PUMPS, each result of the pumping the pumping to the pumping the pumping to the pu

BOROUGH OF CHATHAM. OLD PEOPLE'S HOME (25 FLATLETS).

WAYFIELD ROAD, CHATHAM.

TENDER Gocuments for THIS BUILDING will he available shortly. Contractors who wish to tender are invited to submit their names, together with a cheque for Two Guineas, which will be refunded after receipt of a bona-fide Tender, or return of documents, to MR. J. A. T. RICHARDS, Borough Engineer and Surveyor, Town Hail. Chatham.

Tender's to be received not later than 12 Noon on 21 the Council does not bind itself to accept the lowest or any Tender.

LEIGHTON BUZZARD URBAN DISTRICT

BROOKLANDS DRIVE.

PRIVATE STREET WORKS AND ROAD RECONSTRUCTION.

FIXED-PRICE TENDERS are invited for MAKING-UP BROOKLANDS DRIVE, between 108 Brooklands Drive to the Junction of Brooklands Drive with South Street, Leighton Buzzard (approx. frontage 1.541t.), and the RECONSTRUCTION of CARRIAGEWAY from higher than the second supersy. Between the second supersy. Council Offices, North Street, Leighton Buzzard, from whom of Tender may be obtained on payment of 52 2s. Which is returnable on receipt of a bone-fed and Form of Tender may be obtained on payment of 52 2s. Which is returnable on receipt of a bone-fed candities in plain sealed envelope endorsed "P.S.W.—Brook and Form of Tender than 12 Noon on MONDAY, 31st October, 1950. The Council does not bind itself to accept the lowest or any Tender.

Council Offices.

Leighton Buzzard.

LEIGHTON BUZZARD URBAN DISTRICT

STREET LIGHTING IMPROVEMENT.

HOCKLIFFE ROAD (A.4012), STANBRIDGE ROAD (C.238), AND VARIOUS DISTRICT ROADS.

(C.238), AND VARIOUS DISTRICT ROADS.

TENDERS are invited for the ERECTION of 78
GROUP A STANTON COLUMNS, complete with
Land Transparence of the Columns of the Columns of Columns of Columns of Columns of Columns of the Columns of Columns of Columns of the Columns of Columns of Columns of Columns of the Columns of Columns of Columns of Columns of the Columns of Columns of Columns of the Columns of the Columns of Columns of Columns of the Columns of Column

normal working hours, and the name and Surveyor during Tenders, in plain sealed envelope endorsed "Street Lighthon—A.4012," must be delivered to the understand not later than 12 Noon on MONDAY, 31st Orthon, 1980.

The Council does not bind itself to accept the west or any Tender.

D. L. OVERTON.

Clerk to the Council.

CHESTERFIELD RURAL DISTRICT

Council Offices, Lainton Russand, 25th Sentember, 1960.

Council Offices, Leighton Buzzard, 26th September, 1960.

LESLIE SOUTHERN. Town Clerk.

ROWLAND NEWNES, Town Clerk.

COUNTY BOROUGH OF BLACKPOOL.

TENDERS (by 2.30 p.m., WEDNESDAY, 26:h October, 1960) are invited for the CONSTRUCTION of CONVENIENCES, approx. 90ft. long, 50ft. wide and 12ft. deep. UNDER the PROMENADE, Blackpool. Documents obtainable from Borough Surveyor (ARTHUR HAMILTON, BSC.). Municipal Offices, Blackpool, on payment of 52 deposit.

ROROUGH OF EALING.

TENDERS for CONSTRUCTION of a new SHEET PILE RETAINING WALL and the IMPROVEMENT of the existing RETAINING WALL with MASSED CON-CRETE BUTTRESSES, at OCCUPATION ROAD, South

Ealing. Details obtainable from Borough Engineer. Town Hall, Ealing, W.S., on payment of £5. returnable on receipt of bona-fide Tender.
Tenders to Town Clerk. Town Hall, Ealing. W.S., by Noon on 23th OCTOBER. 1960.

E. J. COPE-BROWN. Town Clerk

SUPPLEMENT

OF RUGBY. BOROUGH LOWER STREET SURFACE WATER SEWER.

TENDERS are invited for the CONSTRUCTION of approx. 567 iln. wid of Sim PRECAST CONCRETE SUBFACE WATER SEWER an INCIDIAL PRECAST CONCRETE SUBFACE WATER SEWER an INCIDIAL WATER SEWER and Form of Tender. Plans may be inspected at and Form of Tender, specification and Bill of Quantities obtained from, the Borough Surveyor's Office, Burford House, Church Walk, Rugby, on payment of a deposit of \$2.2s. which will be refunded on receipt of a bona-fute Tender and the return of all documents. Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided, but with no name Tenders, in the envelope provided the top the tenders of the provided that the provided the tenders of the

T. L. DUFFY. Town Clerk.

NESTON URBAN DISTRICT COUNCIL.

BURTON VILLAGE SEWERAGE AND SEWAGE DISPOSAL WORKS.

BURTON VILLAGE SEWERAGE AND SEWAGE DISPOSAL WORKS.

TENDERS are invited from experienced public works contractors for the ABOVE CONTRACT, to be carried out in Burton Village, Wirral, Cheshire.

The work comprises the Laying of some 1,400yd. of 9in. and 6in. Concrete Sewers complete with 9 months of 9 mont

Town Hall, Clerk of the Council.
Neston, Wirral, Ches.
September, 1960.

LLEYN RURAL DISTRICT COUNCIL.

TO CONTRACTORS.

EXTENSION OF SEWER AT GARNDOLBENMAEN, CAERNARVONSHIRE.

The Lleyn Rural District Council invite FIXED-PRICE TENDERS from competent contractors for LAYING approx. 400vd of 6in dia STONEWARE PIPE SEWER. the Construction of Manholes, and other incidental works, in accordance with Plans, Specification and Quantities prepared by the Council's Engineer, MR. D. LLOYD JONES. Council's Engineer, MR. D. LLOYD JONES. Quantities may be obtained psecification and Billis of Quantities may be obtained psecification and signed payment of £3 3s., which shall be refunded on receipt of a bona-fide Tender and the return of all documents.

receipt of a bona-fide Tender and the return or an documents.

Sealed Tenders on the approved form, endorsed the Extension of Sewer at Garndolbenmaen," are to be delivered to me at my Office not later than 12 Nor on the 25th OCTOBER, 1965 to accept the lowest or any Tender, and any Ender accepted by the Council will be subject to the subsequent approval of the Ministry of Housing and Local Government.

R. G. ROBERTS,

Metro Buildings,

Metro Buildings, Pwilheli, Caerns.

HELSTON AND PORTHLEVEN WATER

TRESCOWE COMMON, TRESCOWE AND MILLPOOL WATER SCHEME.

TENDERS are invited for PROVIDING and LAYING FOLLOWING APPROX. LENGTHS of WATER.

the FOLLOWING APPROX. LENGTHS of WATER MAINS:

3in. Spun-iron with Tyton Joints—2.525yd.

1¹2in. high density Polythene Tube to 150lb.

per sq. in.—1.225yd.

It is to get the total per sq. in.—1.225yd.

Bills of Quantities. Specifications, Forms of Tender, with a map of route of mains, may be obtained from the undersigned on payment of a deposit of £5. 5s. made payable to the Company, which will be returned on receipt of a bona-fide Tender.

The General Conditions of Contract will be those commonly known as the L.C.E. Conditions of Contract.

Tenders, one revised June, 1951.

Tenders, one revised June, 1951.

Bills of Quantities, are to be delivered, in the envelope supplied, by not later than 10 a.m. on WEDNESDAY, 26th October, 1960.

F. J. SEAR.

F. J. SEAR, Secretary Helston and Porthleven Water Co., Monument Road, Helston, Cornwall. September, 1960.

CONTRACTS

NORTHERN GOVERNMENT OF

BELFAST SOUTH APPROACH ROAD

ONTRACT NO. 103—THREE BRIDGES AND FOUI ILES OF ROADWORKS BETWEEN LISBURN ROAD UNMURRY, AND SAINTFIELD ROAD, LISBURN

DUNMURRY, AND SAINTFIELD ROAD, LISBURN.

The MINISTRY OF COMMERCE FOR NORTHERN RELAND invites TENDERS from competent contractors for the Construction of Three Bridges with ancillary works, and Fourth of the Bridges will carry an existing road over the South Approach Road. The Roadworks which will be to motorway standard, will consist of Dual Carriageways each 24ft. wide, together with Hardshoulders, Verges, a Central Reservation. Drainage and Fencing.

Mual Carriageways each 24ft, wide, together with
hardshoulders, Verges, a Central Reservation, Drainage
and Fencing.

Documents can be seen at the Ministry of
Commerce, Room 67. Chichester House, Chichester
Street, Belfast, 1, and also at the Offices of SIR
WILLIAM HALCROW AND PARTHERS, at SIMPLENS, Park Lane, London, W.1, or 10 Malone
Reflect Forms. Conditions of Contract, Specification,
Bills of Quantities and Drawings may be obtained
from the MINISTRY OF COMMERCE at the above
address on payment of £25, which will be rectunded on
receipt of a bona-ride Tender and the return of all
comments. The Comment of the Comment
The Ministry is not bound to accept the lowest or
ny Tender Preference will be given to firms on the
King's National Roll.

COLINTY BOROLIGH OF BOLTON

COUNTY BOROUGH OF BOLTON

UNIFORM CLOTHING FOR 1961, 1962, 1963.

TENDERS are invited for the SUPPLY of UNIFORMS. CAPS. DUST JACKETS and BOILER SUITS. Specifications and Forms of Tender from the General Manager and Engineer. Corporation Transport Department, 147 Bradshawpaie, Bolton. Tenders must be delivered to the undersigned by Noon on FRIDAY. 215t October.

PHILIP S. RENNISON. Town Clerk.

Town Hall,

BOROUGH OF LUTON. RIDDY LANE IMPROVEMENT.

TENDERS are invited for the CONSTRUCTION and RECONSTRUCTION of 7.300 sq. vd. of CARRIAGE-WAY in DRY LEAN CONCRETE, together with ancillary works and Footways, including 91n and 121n. dla. Surface Water Sewers in the Borough English of the Sewers of the Sewers of the Borough English of the Market Sewers of the Borough English of the Borough English

ST. SWITHIN'S SQUARE BROADGATE AND THORNGATE IMPROVEMENT.

TENDERS Invited for CARRIAGEWAY WIDENING in 9in. REINFORCED CONCRETE: CARRIAGEWAY RECONSTRUCTION with PITCHED FOUNDATION. and approx. 950 sq. yd. HOT ROLLED ASPHALT SURFACING, together with Footpaths and ancillary

works. Applications for documents to City Engineer and Surveyor. Silver Street, Lincoln, accompanied by deposit of Two Guineas (cheques payable to Lincoln Corporation), refunded upon receipt of bona-fide Tender not subsequently withdrawn. General Conditions of Contract and Plans may be inspected at the City Engineer's Office.

Tenders, in plain sealed envelopes endorsed "St. Swithin's Square Broadgate Improvement," must be delivered to the undersigned by First Post, FRIDAY, 4th November, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. HARPER SMITH,

J. HARPER SMITH. Town Clerk.

Town Clerk's Office, Saltergate, Lincoln.

BENFLEET URBAN DISTRICT COUNCIL. NEW COUNCIL OFFICES.

Contractors wishing to submit a TENDER for the ERECTION of the ABOVE should forward their names, from which a panel will be chosen and provided with the work consists of the erection of a two-storey office block, with a council chamber, the building being in brickwork with reinforced concrete floors and flat root, and is estimated to cost 880,000. The private Architects for the contract are Gerald London, W.C.1. Applications should reach the Applications should reach the undersigned not later than 15th OCTOBER.

D. GRUDGINGS, Clerk of the Council.

Council Offices. Thundersley, Essex. PRIVATE ESTATE.

STEVENTON (NEAR ABINGDON), BERKS.

STEVENTON (NEAR ABINGDON). BERKS.

TENDERS are invited for the CONSTRUCTION of TARMACADAM ROADWAY. Concrete Kerbing and Asphalt Paving and Grass Verging, together with the Construction of Surface Water Sewers at the Sewers and the Sewers at the Sewers at

FRANK OSBORNE,

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.

QUOTATIONS are invited from heating engineers for MECHANICAL SERVICES at COLLEGE of TECH-NOLOGY, Southamption, to be Sub-contractors to Main Contractor (R.I.B.A. Contract plus Supplemental Conditions available for inspection). Forms and particulars from Borough Architect on written application by 14th October, 1960. Quotation to the TOWN CLERK, Civic Centre, Southampton, by 12 Noon on 21st NOVEMBER.

BOROUGH OF WANSTEAD AND WOODFORD.

OLD MILL PLAYING FIELD AND RODING LANE

TENDERS are invited for the PREPARATION of the ABOVE SITES for PLAYING FIELDS, including Ste Clearance, Grading, Land Drainage, Cultivation, Soiling and Seeding approx. 39 acres, the Construction of Access Roads, Plping in Ditch, Planting of Irees, and all ancillary works.

Plans may be inspected and Tender documents of the Comments of the Comments

CITY OF BRADFORD.

HOLME WOOD HOUSING ESTATE—
FOOLPATH AND VERGE WORKS.
D SECTION—PART III AND PART IV

THIRD SECTION—PART III AND PART IV
TENDERS are invited for FLAGGING, SOILING
THENDERS are invited for Part III and Part IV
or the Third Section of the ABOVE ESTATE.
Con-ract documents may be obtained on payment
of a I wo Guinea deposit, refundable on receipt of a
time of the documents of the Conformation of the documents of the documents
of a surveyor. Town Hall, Bradford, at whose Office
drawings may be inspected.
A separate contract will be let for Part III and
Part IV of the work, and contractors may tender for
cither or both parts.
Tenders to be returned to the undersigned, in the
cavelope provided, endorsed "Tender—Holme Wood
to Indicate the sender, not later than 18th October,
1960.

HENRY PATTEN.

HENRY PATTEN.

WESTMINSTER CITY COUNCIL.

TENDERS are invited, by the 29th OCTOBER, 1960, for UNIFORM CLOTHING and OVERALLS for 12 months commenced by Language 1961, Applicamonths commencing the 1st January, 1961. Applica-tions for forms, accompanied by large stamped addressed envelopes, to TOWN CLERK, Westminster City Hall, Charing Cross Road, W.C.2.

WIRRAL URBAN DISTRICT COUNCIL. PRIVATE STREET WORKS

PRIVATE STREET WORKS.

FIXED-PRICE TENDERS are invited for the MAKING-UP of GROVE AVENUE, Heswall (approx. length 149 lin, yd.), and LAUREL AVENUE, Heswall (approx. length 179 lin, yd.).

The Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Heswall, at which Office the Mains and Conditions of Contract may be inspected during the Council Offices, sealed envelopes endorsed and plain sealed envelopes endorsed avenue," must be delivered to the undersigned not later than 10 a.m. on SATURDAY, 15th October, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

W. F. ROBERTS.

Council Offices,

Council Offices, Meswall, Wirral.

R URAL DISTRICT COUNCIL OF

HEMPSTED SEWERAGE SCHEME.

29 Brunswick Square, Gloucester. 3rd October, 1960.

LANCASHIRE COUNTY - COUNCIL.

TENDERS are to be invited from building contractors for DEVELOPMENT of PLAYING FIELDS and PROVISION of BOUNDARY FENCING, etc., at the FOLLOWING:—
Billington R.C. Secondary School

FOLLOWING:—

Billington R.C. Secondary School.
Longridge R.C. Secondary School.
Longridge R.C. Secondary School.
Prescot St. Luke's R.C. Primary School.
All Viewston Croftlands County Primary School.
A County Primary School.
A County Primary School.
A County Hall, Preston, not later than 18th OCTOBER.
Municipal Buildings.
Taunton.

COUNTY BOROUGH OF SOUTHEND-ON-

Contractors interested in submitting a TENDER for BELLHOUSE ROAD IMPROVEMENT. involving the Widening of approx. 750vd. of Carriageway in Dry Lean Concrete with 3in. Gravel Asphalt Surfacing, with Kerbs and Footpaths; and the Laying of approx. 850vd. of 9in.-18in. Sewers and incidental works in cogether with a deposit of 52. before MNDAY and the Cotober, to the Borough Engineer and Surveyor for inclusion on a list of contractors for whom Tenders will be invited. The deposit will be refunded on receipt of a bona-fide Tender and/or the return of all loaned documents.

Scaled Tenders, addressed to the undersigned and all loaned documents.

Scaled Tenders, addressed to the undersigned and edilvered to this Office v 3 professed to be specified, and no Office v 3 professed thereafter will be received thereafter will be render.

No Tender will be received thereafter will be read involved provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN.
TOWN Clerk.

OF WIDNES. BOROUGH

CONTRACT NO. 391—CONSTRUCTION OF FOOT-WAYS—LIVERPOOL PLACE. CONTRACT NO. 392—MAKING-UP OF HEATHVIEW ROAD (PART).

TENDERS are invited for the FOLLOWING.
CONTRACTS:
(a) Construction of Footways. Liverpool Place.
Consisting of approx. 380 so, vd. of Flagging and 170 so, vd. of Concrete Footway Crossings.
(b) Making-up of Heathview Road (Part), consisting of approx. 240 sq. vd. of 6in.
Unreinforced Concrete Carriageway. 240 sq. vd. of 12in. Cold Asphalt Surfacing.
Flagging, and cities of Concrete Carriageway. 240 sq. vd. of 5in.
Copies of the Specification. Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer, Town Hall, Widnes, on payment of a deposit of Two Guineas for each Contract, returnable on receipt of a bona-fide Tender not subsequently withdrawn. In the envelope provided, to reach and contract.

receipt of a withdrawn.
Tenders, in the envelope provided, to reach the Borough Engineer not later than 12 Noon on MONDAY, 31st October, 1960.

FRANK HOWARTH.
Town Clerk.

Widnes, Widnes, October, 1960. TROWBRIDGE URBAN DISTRICT COUNCIL.

PROPOSED ROAD IMPROVEMENT AT FROME ROAD (A.361), TROWBRIDGE.

TENDERS are invited for the ABOVE-MENTIONED WORKS, which extend over a section of road 500yd. In length, and which include the following: Widening of Carriageway: Construction of New Kerb and Footpath: Reconstruction of Existing Footpath: Surface abutting on to the Improvement Works.

Tendering documents may be obtained from the Engineer and Surveyor. Town Hall, Trowbridge, on and after Monday. 26th September, on payment to the Council of a deposit of Two Guineas, which will be returned only on receipt of a bona-fide Tender and return of all documents. The General Conditions are truended only on receipt of a bona-fide Tender and return of all documents. The General Conditions the Lowest or any Tender.

The Council do not blind themselves to accept the lowest or any Tender.

No Tender will be considered unless received on the Form of Tender and in the envelope provided, sealed, and delivered to the undersigned by Noon on MONDAY, the 17th October, 1960.

Town Hall, Trowbridge.

Town Hall, Trowbridge, September, 1960.

WINSLOW RURAL DISTRICT COUNCIL.

SWANBOURNE, MURSLEY AND STEWKLEY SEWERAGE AND SEWAGE DISPOSAL.

TO CONTRACTORS

The above-named Council Invite TENDERS for the EXECUTION OF WORKS OF SEVERAGE. comprised in the Furnishing and Laying of about 6.400mg of gin. and 6in. Stoneware and Spun-from Pipe Sewers, Manholes, Ventilators, etc., about 500vd. of 4in. Asbestos-cement Pumping Main, and the Construction of a Sewage Pumping Station and Sewage Disposal Works consisting of Screening Chamber, Sedimentation Tanks, Percolating Filter, Humus Tanks, Sludge Drying Beds, Feed, Affluent, Sludge and Topwater Pipes, etc., and other appurtenant works.

Pipes, etc., and other appurtenant works.

Sedimentation of the State of

R. G. BROWN, Clerk to the Council,

Council Offices, 28 High Street, Winslow, Bletchley, Bucks,

CONTRACTS

NORTHUMBERLAND COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT. SUPPLY OF 20-TON LOW-LOADER.

TENDERS are invited for the SUPPLY of One Articulated Diesel-engined LOW-LOADER to carry 20 tons, with detachable trailing axies for rear loading. Specification, etc., may be had on application to the County Surveyor, Phoenix House, Queen Street, Newcastle-upon-Tyne, 1.
Tenders, in a plain sealed envelope, endorsed "Tender for Low-loader—9 a.m., 17th OCTOBER, 1960," should reach the Clerk of the County Gouncil, County Hall, Newcastle-upon-Tyne, 1, by this time and date.

E. P. HARVEY, Clerk of the County Co COUNTY BOROUGH OF BLACKBURN.

PRIVATE STREET WORKS-NORTH ROAD.

Contractors wishing to TENDER for the ABOVE WORK should submit their names and addresses to the Borough Engineer, Town Hall, Blackburn, by OCTOBER 15th, 1960. Bills of Quantities and Specification will be forwarded in due course.

FRANK SQUIRES, Town Clerk.

COUNTY BOROUGH OF DUDLEY. TIPTON ROAD OMNIBUS LOADING BAY.

Applications to tender are invited for the ABOVE CONTRACT. The work comprises Excavations for, and the Laying of, 220 sq. yd. of Reinforced Concrete.

10 yd. of Kerb, and anciliary workers is should be addressed to the Borough Englineer and Surveyor, and the Concrete and the Co

P. D. WADSWORTH, Town Clerk.

The Council House, Dudley, Worcs, 28th September, 1960. BOROUGH OF TAUNTON.

TENDERS are invited, by 10 a.m. on 24th OCTOBER, for the CONSTRUCTION of the EXTENSION to THE CRESCENT CAR PARK, approx. 4,000 sq. yd. of Foundation and Tarmacadam Surfacing and ancillary

works.

Specification, Bill of Quantities and Form of Tender obtainable from Borough Engineer, St. Paul's House. Taunton. K. A. HORNE, Town Clerk.

BOROUGH OF KIDDERMINSTER. DEMOLITION-HALL STREET, ANCHORFIELDS, AND THE RIFLE RANGE.

AND INE RIFLE RANGE.

TENDERS are invited from experienced demolition contractors for the FOLLOWING WORK:—

(a) Hall Street—Demolition and Site Clearance of 27 Properties—Demolition and Site Clearance of Properties—Demolition and Site Clearance of One Building.

(c) Rifle Range—Demolition and Site Clearance of One Building.

Copies of the Form of Tender, Conditions of Contract and Specification may be obtained from the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster.

Tenders must reach the undersigned, in the envelope provided, not later than Noon on WEDNESDAY, 19th Cotober, 1960.

The Council is not bound to accept the lowest or any Tenders.

TOWN TENDERS OF THE COUNCIL STREET OF

JOHN L. EVANS, Town Clerk.

Town Hall. Kidderminster. 29th September. 1960.

PROPOSED INTERNAL BY-PASS.

PROPOSED INTERNAL BY-PASS.

TENDERS are invited from experienced and competent civil engineering contractors for the FOLLOWING MAIONTRACT No. 587.—Peoper Street Improvement, involving the Reconstruction and Widening of an existing Road and Main Junction. total carriageway area approx. 4,500 sq. yd. together with Footpaths.

CONTRACT No. 588.—Vicars Lane Improvement, involving the Strengthening, Widening and Partial Re-alignment of an existing Road, total carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriageway area approx. 2,500 sq. yd. together with Footpaths, Drainage, etc. 100 carriage, etc. 10

CATERHAM A N D WARLINGHAM

PRIVATE STREET WORKS-GEORGES TERRACE.

TENDERS are invited for the ABOVE WORKS, which include approx. 500 sq. yd. of Bitumen Macadam Carrisgeway Surfacing, 120 ms. yd. of New Bitumen Macadam Footpath, and 120 yd. of Concrete Kerbing.

Form of Tender, Bills of Quantities and Specification of the Concrete of the Engineer and Surveyor, Council Offices, Caterham.

Tenders, enclosed in the endorsed envelope provided, are to be delivered to the undersigned not later than 4 p.m. on 4th NOVEMBER, 1960.

B. J. SMERDON,
Clerk of the Council.

Council Offices, Caterham,

CONTRACTS

BOROUGH OF MAIDSTONE.

CONSTRUCTION OF RETAINING WALL AND HARDSTANDING AT LOCKMEADOW MARKET, MAIDSTONE.

TENDERS are invited for the CONSTRUCTION of a RETAINING WALL approx. 85yd. In length, in Mass Concrete, and a MARDS ANDING approx. 700 and ANDING ANDING APPROX. 700 and Cortmeadow Market, Maidstone.

Specification and Bills of Quantities may be obtained from, and Drawings seen at, the Office of the Borough Engineer. Palace Avenue, Maidstone. Tenders, in plain sealed envelopes endorsed "Construction of Retaining Wall and Hardstanding at Lockmeadow Market," must reach the undersigned not later than 10 a.m. on MONDAY, 17th October, 1960.

not later than 10 a.m. on mounts
1960.
The Corporation does not bind itself to accept the lowest or any Tender.
T. SCHOLES.

T. SCHOLES. Town Clerk.

13 Tonbridge Road, Maidstone.

ROROUGH OF SCUNTHORPE.

TENDERS FOR THE ERECTION OF ONE 14-STOREY BLOCK OF 79 FLATS ON THE WESTCLIFF ESTATE, SCUNTHORPE.

WESTCLIFF ESTATE. SCUNTHORPE.

The Council invites contractors who have previously undertaken similar contracts and who wish to submit a TENDER for THIS WORK to forward their names to the undersigned not later than MONDAY. 10th October. 1960.

October. 1960.

The Seerves the right to select from the applicants a list of firms who will be invited to submit Tenders, and does not bind itself to accept the lowest or any Tender.

A deposit of Five Guineas will be returned on the receipt of a bona-fide Tender or return of the Bill of Quantities.

Municipal Offices.
34 High Street
Scunthorpe.
26th September, 1960.

ITY AND COUNTY OF BRISTOL.

KING'S HEAD LANE RECREATION GROUND.

KING'S HEAD LANE RECREATION GROUND.

TENDERS invited for CONSTRUCTION of a PLAY-GROUND and PLAYING FIELDS and CULTIVATING PARKLAND on ABOVE SITE. The Recreation Ground is a planning of the provided of the p

TENDERS are re-invited for the SUPPLY of approx. 2.000 TIME SWITCHES during 1961. Tender Forms, returnable 18th OCTOBER, 1960. From the CITY SURVEYOR, Town Hall, Manchester, 2.

THINGOE RURAL DISTRICT COUNCIL.

SEWERAGE-VILLAGE OF STANTON

SEWERAGE—VILLAGE OF STANTON.

The Council invites FIXED-PRICE TENDERS for the LAYING of sex. 1,800-d of sin. dia, GLAZED STANTON.

The Contract Agreement will be in the form prescribed by the Joint Engineering Bodies, and Specifications, Billis of Quantities and Plans may be obtained from the Engineer and Surveyor at the undermentioned address on payment of £3 3s, repayable upon the return of all documents with bona-fide Tender.

The Council documents of the Council

J. H. WHITFIELD, Clerk of the Council.

1 Northpate Street
Bury St. Edmunds.
Suffolk.
30th September. 1960.

HAMBLEDON R U R A L DISTRICT
COUNCIL.

SITE DEVELOPMENT WORKS AT PARSONAGE ROAD, CRANLEIGH.

FARSONAGE ROAD. CRANLEIGH.

TENDERS are invited for the CONSTRUCTION of a SHORT CUL-DE-SAC ROAD leading off Parsonage Road, and comorising approx. 320 super. vd. of Zin. Incided The Surfacing with Foundation to Carriageway, Including 120 lin. vd. of Precast Concrete and other minor ancillary works.

A Specification, Plan, Bill of Quantities and Form of Tender may be obtained from the Office of the Engineer and Surveyor on payment of a deposit of 2.2 s., returnable upon receipt of a bona-fibe fender and the return of all documents. Cheques should be considered to the consideration of the Constant of Constant of

ROBIN I. GARLAND. Clerk to the Council.

EPPING AND ONGAR RURAL DISTRICT

MORETON SEWERAGE SCHEME.

Experienced civil engineering contractors are invited to apply for CONTRACT DOCUMENTS for the CONSTRUCTION of a SEWAGE DISPOSAL WORKS and 3,300yd of 6in. SEWER for the Village of MORETON. Applications, together with a deposit of 1,500 pt. 1,500 p

STATES OF JERSEY.

SEWERAGE BOARD.

RECONSTRUCTION OF SEWERS.

RECONSTRUCTION OF SEWERS.

TENDERS will shortly be invited from a select list of tenderers for the RECONSTRUCTION of approx.

ACM IN PRESHOT CONCRETE SECTION METHOD OF LINING, and the CONSTRUCTION of approx. 150 vd. of naw 9in. dia. SEWER, together with Connections. Manholes, and ancillarly works.

Contractors wishing to be included in the list are invited to submit to the undersigned their names, together works of this nature.

Constructions will be received up to the 13th October. 1960.

No undertaking is given that all applicants, or any one, will be invited to tender.

M. Inc. E. M. GOTHARD, B.Sc., M. I.C.E., M. I.C.E., M. I.C.E., Consultant Engineer.

NORTHAMPTONSHIRE COUNCIL. COUNTY

TENDERS will shortly be invited for the FOLLOWING:
Corbs torey Load-bearing Brickwork and Part Steel Frame).
Roade Modern School Extensions (Two-storey Steel Frame).
Contracted Frame).

Laborated Frame).

Laborated Frame F

J. ALAN TURNER.
Clerk of the County Council.

BOROUGH OF SLOUGH.

ALBERT STREET IMPROVEMENT-STAGE I.

ALBERT STREET IMPROVEMENT—STAGE I.

TENDERS are invited for the IMPROVEMENT of ALBERT STREET (Stage I), comprising approx. 1,700 ag, yd. of Concrete Carriageway Base, 6,000 sq. yd. of Hot. Rolled Asphalt Surfacing, 1,000 lin. yd. of Kongolius (Stage I), comprising approx. 1,700 lin. yd. of Kongolius (Stage I), comprising approx. 1,700 lin. yd. of Hot. Specifications, Bills of Quantities and Form of Tender are obtainable from the BOROUGH ENGINER, Town Hall, Slough, Bucks., on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents. Drawings and Conditions of Contract may be inspected at the Borough Engineer's Office during normal office hours.

hours.
Tenders, on the prescribed form, must be returned, in the envelope provided, not later than Noon on WEDNESDAY, 26th October, 1960.
The Council do not bind themselves to accept the lowest or any Tender.

BOROUGH OF HIGH WYCOMBE. CONTRACT NO. 6.

HUGHENDEN ROAD FOUL AND SURFACE WATER

TENDERS are invited for the CONSTRUCTION of the ABOVE SEWERS.

The work comprises approx. 900 yd. of 15in.-21in. Foul Sewer and approx. 1,000yd. of 21in.-24in. Surface Water Sewer, mainly Concrete Pipes with Double Seal Joints in open cut: In-situ Concrete Manholes; Trunk Road and River Crossing: the Interconnection of Surface Water Sewers, and Interconnection of Surface Water Specification, Bills of Quantities and Form of Tender may be obtained from the Borough Engineer's Department, Municipal Offices, High Wycombe, on receipt of a bona-fide Tender.

Divided Water Sewers of Sewers and Surface Water Sewers and Sewers Sewers and Sewers Sewers and Sewers Sewers and Sewers Sewers Sewers and Sewers Sewers

MILL ROAD IMPROVEMENT.

MILL ROAD IMPROVEMENT.

FIXED-PRICE TENDERS invited for the RECONSTRUCTION of CARRIAGEWAY and FOOTPATHS,
including 4,700 so. yd. of Tarmacadam and Asphals
surfacing, with 10in. Lean-mix Sub-base; 1,250
lin. yd. of Kerbing and Channelling; 2,800 so. yd.
In recast Flag Footpath and ancillary works.
In recast Flag Footpath and ancillary works.
The recast flag Footpath and ancillary works.
In recast properties of the surface of the

E. BRADBURY, Town Clerk.

Municipal Offices, Queen Street, Deal.

S T. OF ALBANS. HOUSING-JERSEY FARM ESTATE.

HOUSING—JERSEY FARM ESTATE.

TENDERS are invited for the ERECTION of 48 HOUSES and 76 GARAGES on the Jersey Farm Estate, St. Albans.

Bills of Quantities and Form of Tender can be obtained from, and Drawings inspected at, the Office of the City Engineer and Surveyor, 16 St. Peter's Street, St. Albans, on payment of a £3 3s. deposit, which sum will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Form of Tender, in the endorsed derivelope professional control of the professiona

38 St. Peter's Street, St. Albans.

CONTRACTS

URBAN DISTRICT COUNCIL OF

MARKHAM'S CHASE RECREATION GROUND-PART I.

TENDERS will shortly be invited for the PREPARATION of GRASSED AREA (approx. 10 acres) and
LAND DRAINAGE WORKS as Part I of the ABOVE
RECREATION GROUND.
Experienced contractors wishing to tender should
apply for the Bills of Quantitles, Specifications and
plans to the Council's ENGINEER AND SURVEYOR,
88 Town Square, Basildon, by not later than 14th
OCTOBER. The application should be accompanied by
a deposit of \$2.2s. (Two Guineas), which will be
returned on receipt of a bona-fied Tender not subcontractors applying for documents should give
the names of other Authorities for whom they have
executed work of a similar nature.

LEYLAND URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS

HOUGH LANE GROUP.

TENDERS are invited for the ABOVE GROUP of PRIVATE STREET WORKS. PRIVATE STREET WORKS.
The works include the Construction of approx.
The works include the Construction of approx.
2 Wet-mix Foundation: 3,380 sq., vd. of Tarmacadam Surfacing with Hardcore Foundation: 4,680 sq. vd.
of Concrete Slab Back Streets, together with Flagged Footways, Kerbing, Channelling and Surface Water Dralnage.

Pootways, Reroing, Channelling and Surrace water prainage. Prainage and the prainage and prainage and Surrevor. Brown of Tender may be obtained on payment of a deposit of \$2.2 s., which will be refunded on receipt of a bona-fide Tender. Cheques should be made payable to Leyland Urban District Council.

Tenders, in a plain sealed envelope and endorsed Private Street Works. must be delivered to the Tribute Street Works. The Council on MONDAY, the 17th October, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. C. F. GODSELL.

W. C. F. GODSELL, Clerk of the Council

Council Offices, Leyland, Lancs, September, 1960.

BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL.

EXTENSIONS AND MODIFICATIONS TO SEWAGE DISPOSAL WORKS AT BESSELL LANE, STAPLEFORD.

The Council invite TENDERS, on a Fixed-price Basis, from responsible and fully experienced contractors for the ABOVE WORKS in Reinforced and Mass Structures comprising new Screening Chambers, Grit Channels, Pumping Stations, Balancing Tank, Settlement Tanks, Filter Beds, Humus Tanks, Digestion ment Tanks, Filter Beds, Pipelines, and anciliary Topics on site.

The Drawings, Specification and Bill of Quantities may be inspected at the Office of the Consulting Engineers, MESSRS, ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, and copies of the Tender documents may be obtained from them on deposit of Ten Guineas by cheque (payable to Beeston and Stapletor U.D.C.), which will be refunded on-drawn, and the return of all documents loaned to the contractor for the purpose of making-up his Tender, Tenders are to be delivered to the undersigned, in a plain sealed envelope endorsed "Tender for Stapleford Sewage Disposal Works," to reach him by 29th November, 1960.

The lowest or any Tender will not necessarily be accepted, and a Tender is subject to the final approval of the Minister of Housing and Local Government.

H. D. JEFFRIES. Clerk of the Council.

Town Hall, Beeston, Nottingham.

SAMFORD RURAL DISTRICT COUNCIL.

SEWERAGE OF HOLBROOK.

CONSTRUCTION OF SEWERS AND SEWAGE DISPOSAL WORKS.

DISPOSAL WORKS.

The Samford Rural District Council Invite TENDERS from public works contractors for the LAYING of approx. 13 miles of 6in, and 9in, dia. SEWAGE DISPOSAL WORK'S.

Tender documents and Drawings may be obtained during the period 17th October to 31st October, 1960, inclusive, at the Office of the Engineers, MESSRS. BINNIE. ST. WORK'S. Tender documents of the Engineers, 1960, inclusive, at the Office of the Engineers, 1960, inclusive and the Engineers, 1960, inclusive and 1960, inclusive and 1960, inclusive and 1960, including the Engineers, 1960, inclusive and 1960, inclusive and 1960, including the Inclusive and 1960, including the Inclusive American State of the Including the Including

or any connection themselves f anditions of

R. BLENKINSOPP, Clerk to the Council.

mford R.D.C., North Lodge, 25 London Road, Ipswich, Suffolk,

ETON RURAL DISTRICT COUNCIL.

CROWN LANE, EAST BURNHAM.

Civil engineering contractors wishing to be considered for inclusion in a selected list of contractors to TENDER for the CONSTRUCTION of approximate and the Construction of approximate and 200 lin. vd. of the Construction of t

G. L. BRIDGER, Clerk to the Council.

Council Offices, Windsor Road, Slough, Bucks. 30th September, 1960.

CONTRACTS

ROYAL BOROUGH OF NEW WINDSOR. STREET LIGHTING SCHEME, 1961.

STREET LIGHTING SCHEME, 1961.

TENDERS are invited for the FOLLOWING STREET LIGHTING INSTALLATION, which forms part or "The Windsor Project":—

(a) 26 approx. 400-W Colour-corrected Mercury Vapour Lamps on Wall Brackets in the Tolour Corrected Mercury Vapour Lamps, mostly in side streets on Brackets.

(c) 5ix approx. 80/125-W Colour-corrected Mercury Vapour Lamps, mostly in side streets on Brackets.

(d) The Removal of the existing Group "A" Mercury Vapour Lamps in Special Lanterns.

Plans may be inspected at the Borough Engineer's Office. Kipling Building, Alma Road, Windsor, from which Specification, Form of Tender and Conditions of Contract may he obtained. Tenders, in the official envelope provided, must reach me by First Post on FRIDAY, 21st October. The Council dose not bind itself to accept the lowest or any Tender.

The Council dose not bind itself to accept the lowest or any Tender.

The Council dose not bind itself to accept the lowest or any Tender.

The Council dose not bind itself to accept the lowest or any Tender.

T. A. TOWNDROW, Acting Town Clerk.

ROYAL BOROUGH OF NEW WINDSOR. MAIDENHEAD ROAD (A.308) IMPROVEMENT-

TENDERS are invited for the WIDENING of the existing CARRIAGEWAY to 33'rt. PROVISION of 6rt. FOOTWAY. and SURFACE WATER DRAINAGE. The carriageway will be constructed on a hoggin embankment lean concrete, bituminous surfacing. For the carriageway will be constructed on a hoggin embankment lean concrete, bituminous surfacing. Minimum vorall width of highest foot, and the plans and some surface of the surface o

CITY OF MANCHESTER.

TENDERS invited for HEATING and HOT WATER SERVICE BOILER HOUSE PLANT to COMBINED CLINIC, WILMSLOW ROAD, WITHINGTON, Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall Tenders returnable by OCTOBER 18th.

MANCHESTER. CITY OF

TENDERS invited for the FOLLOWING:—

(a) Electrical Installation.

(b) Supply and Frection of Electric Passenger!

Goods Lift at New Hostel Block, Didsbury
Training College.

Specifications and Drawings from CITY ARCHITECT.

P.O. Box 488, Town Hall. Tenders returnable by
OCTOBER 26th.

CITY OF MANCHESTER.

HOUSING COMMITTEE. TENDERS invited (returnable Noon, 24th NOVEMBER, 1960) for the FOLLOWING:—
CONTRACT 352.—Erection of 42
Devellings.
CON Stiller Street. Miles Platting. 29
CON Collyhurst Street. Collyhurst.
Documents obtainable from DIRECTOR OF HOUSING.

BASILDON URBAN DISTRICT COUNCIL.

GRAYS HILL SEWERAGE SCHEME.

GRAYS HILL SEWERAGE SCHEME.

TENDERS will be invited for the CONSTRUCTION of approx. Two Miles of SEWERS, RISING MAINS and PURPHING STATON.

Experienced contractors should apply for Tender documents to the Council's ENGINEER AND SURVEYOR. BB Town Square, Basildon, by 14th OCTOBER, 1950.

Applications for documents should be accompanied by a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, as the return of all documents withdrawn as the return of all documents withdrawn as the return of all documents withdrawn as the return of all documents.

THE URBAN DISTRICT COUNCIL OF

PROVISION OF FENCING.

TRUNK ROAD RECREATION GROUND,

FIXED-PRICE TENDERS are invited for the ERECTION of approx. 600 lin. vd. of WROUGHT-IRON FENCING at the ABOVE RECREATION GROWN FENCING at the ABOVE RECREATION GROWN of the Bills of Quantities and Form of Tender may be obtained from N. C. HARRISON. A.M.I.C.E., M.I.Mun.E., Engineer and Survevor, 246 Normanby Road, South Bank, Middesbrown, on payment of a deposit of Two Guineas in respect of the documents, which will be refunded an receipt of a bona-fide Tender (not subsequently withdrawn) or the return of the following the date given before the date given before the date given before the following the return of the following t

Council Offices, Grangetown-on-Tees. September, 1960. WANDLE VALLEY JOINT SEWERAGE

DISPOSAL OF SLUDGE.

The Wandle Valley Ioint Sewerage Board invite TENDERS for the REMOVAL and DISPOSAL of LIME PRESSED SLUDGE CAKE, containing approx. one-third lime of a dry solids basis and dried digested to the state of the sewerage and Form of Tender can be obtained from Mr. W. B. WIGNALL, surveyor to the Wandle Valley Joint Sewerage Board, Bygrove Road, Colliers Wood, S.W.19, and the Tenders should be sent to Cooker, 1950. HARRY MAY, Clerk of the Board.

Disposal Works, Bygrove Road, Colliers Wood, S.W.19.

BUCKS. COUNTY COUNCIL. AMERSHAM-BERKHAMSTED ROAD, A.416.

ROAD AND BRIDGEWORKS AT HOCKERIDGE ARCH.

ASHLEY GREEN.

TENDERS are invited for ROAD AND BRIDGE-WORKS (approx. \$50yd.), comprising Realignment and Widening of Carriageway and Bridge, including Earthworks. Kerbing, Channelling, Rolled Concrete Foundation. Termacedam Berger, 1918, san 12tr. 318 prick-faced Mass Concrete Wing Walls, Spandrels, Brick Parapet, and ancillary works.

Drawings may be seen at the Offices of the County Surveyor, County Offices, Aylesbury, from whom Contract documents may be obtained on payment of adeposit of £2, returnable on receipt of a bona-fide Tender.

Tender, Tenders must be received by me by 10 a.m. on MONDAY, 31st October, 1960. The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD, Clerk of the Council.

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT. NOTTINGHAM-DERBY-STOKE-ON-TRENT TRUNK ROAD, A.52.

PORTWAY HEAD, SUDBURY-JUNCTION WITH A.S15-SURFACING.

TENDERS are invited for SUPPLYING and LAYING AND ROLLED ASPHALT REGULATING COURSE and a 1½ in. compacted thickness WEARING COURSE. The works compacted thickness WEARING COURSE. The works compacted to the property of the course of the works of the course of the course

County Offices, Matlock. COUNTY BOROUGH OF WEST HAM.

EDUCATION COMMITTEE

TENDERS are invited for the FOLLOWING in respect of West Ham Schools—
School Books.
Stationery.
Drawing Requisites.
Handwork and individual Apparatus
Apparatus
Apparatus
Apparatus
Apparatus
Heedschashery.
Laundry Work.
Forms of Tender, to be returned not later than the standard of the

R. OPENSHAW, Chief Education Officer.

Education Department. 95 The Grove. Stratford, E.15. BOROUGH ILFORD.

ILFORD BROADWAY REDEVELOPMENT.

PROPOSED SHOPS AND OFFICE BLOCK STRUCTURAL WORKS.

The CORPORATION invites TENDERS for the STRUCTURAL FOUNDATIONS and FRAMEWORK involved in the Construction of a Four-storey Block of Shops and Offices, together with a Two-level Car Park, Access Road, and Drainage System. The work consists of Reinforced Concrete Foundations and Retaining Walls, Partiv Cased Structural Steelwork Frame (treespects), Reinforced Concrete Floors and Retaining Walls, Partiv Cased Structural Steelwork Frame (treespects), Reinforced Concrete Floors and Staircases, Mass Concrete Ramp, and all incidental works.

The Conditions of Contract and Drawings may be inspected, and the Special Conditions, Specification, Bill of Quantities, General Layout Drawings and Form of Tender obtained on application in writing Borough Engineer and Surveyor, Town Hall Mapplications must be accompanied by a denoit of Applications must be accompanied by a denoit of Applications must be accompanied by a denoit of

to the Borough Engineer and Surveyor, Town Hall, Applications must be accompanied by a decosit of Five Guineas, which is returnable upon receipt of a bona-fide Tender not subsequently withdrawn. Sealed Tenders, in an envelope which will be provided, bearing no indication of the tenderer and endorsed Tender for Illord Broadway Redevelop-Works." must be delivered to the TOWN CLERK. Town Hall, Illord, not later than & p.m. on TUESDAY, 25th October, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

WITHAM URBAN DISTRICT COUNCIL.

HOWBRIDGE ROAD DEVELOPMENT. ROADS AND SEWERS.

ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION of ROADS, SEWERS, Manholes and other incidental works, at the ABOVE ESTATE, comprising approx.: 2,910 sq. vd. of Carriageway, Lean-mix Concrete Base and Gravel Asphalt Surfacing: 2,419 sq. vd. of Footways and Vehicular Crossings: 3,944 sq. vd. vd. of Footways and Vehicular Crossings of Council Offices, Witham Issaes, unprayment of Council Offices, Witham Essex, unprayment of Awards of Albert State Council Advanced in Palary State Council Advanced in Pa

tober, 1960.

The Council do not bind themselves to accept the west or any Tender. H. CROOK. Clerk of the Council.

CONTRACTS

BOROUGH OF SOUTHGATE.

TENDERS are invited from specialist firms for the DEMOLITION of a BLOCK of 35 RESIDENTIAL DWELLINGS in New Southpate, including the Disposal of all Materials.

Contractors wishing to tender written application to the Borough Engineer and Surveyor for the relevant documents. Drawings and General Conditions of Contract may be inspected at the Town Hall, N.13, during normal office hours.

Authorized Tenders must be received by the undersigned not later than 12 Noon on TuEDSAY, 25th October. 1960.

not later than 12 Noon on Tuesday. 1960.
The Council do not bind themselves to accept the lowest or any Tender. GORDON H. TAYLOR. Town Clerk.

Southgate Town Hall, Palmers Green, N.13. 5th October, 1960. BOROUGH OF STRATFORD-UPON-AVON.

SEWERAGE AND SEWAGE DISPOSAL WORKS

Civil engineering contractors wishing to be included in the list of firms to TENDER for the UNDER-MENTIONED CONTRACTS are invited to submit their names, together with details of similar contracts compared to the undersigned by TUESDAY. 1st November. 1960.—

CONTRACT No. 1.—Sewerage.—Approx. 8.500 lin. yd. of Concrete and Giazed Ware Sewers (diameters varying between 9in. and 36in.). Overflows, etc. 1.0 existing Sewers, Storm Overflows, etc. 2.—Main Sewage Pumping Station.—New Pumping Station, approx. 65ft. x 25ft. 25ft. deep, and Screen House, approx. 2.200 lin. yd. 21in. dia. Cast-Iron Contract No. 3.—Extensions to and Reconstruction of Sewage Disposal Works, including Detritor, Four Circular R.C. Tanks, Eight Circular R.C. Filter Beds, Prestressed Concrete Primary and Secondary Digesters, Recirculation Pumping Station, approx. Recirculation Pumping and Treatment Area, Recirculation Pumping and Treatment Area, Recirculation Pumping and Treatment Area, Recirculation Pumping station, and Workshop, etc.

P. C. SMART, M.I.C.E., M.I.Mun.E.,

P. C. SMART, M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor.

Municipal Offices, Rother Street, Stratford-upon-Avon, 29th September, 1960. REPAINTING OF 1,600 LAMP COLUMNS.

TENDERS are invited for the ABOVE. Documents from City Engineer. £2 deposit. Closing date, 26th OCTOBER, 1960.

C. PETER CLARKE, Town Clerk.

Town Hall, Peterborough MANCHESTER. OF SOUTHMOOR ROAD AND HOLLYHEDGE ROAD EXTENSION.

TENDERS are invited for the CONSTRUCTION of 3.800 sq. vd. of BITUMEN MACADAM CARRIAGE-WAY. 2.950 sq. vd. of SAND CARPET FOOTPATH, and 570 lin. yd. of 6in. and 9ln. SEWER. Tender documents, returnable by MONDAY, 31st Tender documents, returnable by MONDAY, 31st Constant of the CITY SURVEYOR. Room 208). Town fall, Manchester, ve. 200 for the CITY SURVEYOR.

DEREHAM U URBAN DISTRICT

FOUL AND SURFACE WATER SEWERS-

TENDERS are invited for the FOLLOWING:—

(1) Re-laving 130 lin. vd. of 12In. dia. G.S.W.
Pipes in Spun-Iron, with a possible Extension
of 196 lin. vd. Depth not exceeding 25ft.
(2) Laving 303 lin. vd. of Gin. dia. Surface Water
Sewer. Depth not exceeding 5ft.
Bills of Guarities. Specification and Plan may be
named of Guarities. Specification an

IVOR G. WINN, Clerk of the Council.

Assembly Rooms, Dereham, Norfolk, 29th September, 1960. N ORTH DEVON WATER BOARD. CONTRACT NO. 63D.

CONSTRUCTION OF BRATTON DOWN SERVICE RESERVOIR.

RESERVOIR.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a REINFORCED CONCRETE COVERED SERVICE RESERVOIR, with Earthen Embankments, to contain 750,000 gallons, and other ancillary works in connection therewith, at Bratton Down in the Parish of Bratton Fleming, at a point approx. 712 miles north-east of Barnstaple.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Engineers. For the Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Engineers. Suff.; under the Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Engineers. Suff.; under the Copies of the Specification, Bill of Quantities and Will Berepaid upon the receipt of a bona-fide Tender and the return of all documents and Drawings supplied.

and the return of all documents and Drawings supplied.

The Contract Drawings may be inspected at the Office of the Engineers or at the Office of the Chief Engineer (North), North Devon Water Board, Grenville House, Boutport Street, Barnstaple, Tenders, in plain sealed envelope endorsed Tender for Contract No. 63D." to be sent to the undersigned not later than 12 Noon on the 7th NOVEMBER 1960.

NOVEMBER 1960.

R. T. SHEARS.

R. T. SHEARS, Clerk to the Board.

CONTRACTS

COUNTY BOROUGH OF HALIFAX.

CONCRETE FENCE AT CLOUGH FARM, MIXENDEN.

TENDERS are invited for the SUPPLY and ERECTION of 230 lin. yd. of CONCRETE POST and PANEL FENCING, height 3ft. 9in. The panels are to be of the weatherboard type and buff coloured. Details from the Borough Engineer, Crossley Street, Hallfax. Tenders are to be delivered to the undersigned by FRIDAY, 14th October, 1960.

RICHARD de Z. HALL. Town Clerk.

MIRFIELD URBAN DISTRICT COUNCIL. WOODWORKING MACHINE

TENDERS are invited for the SUPPLY of a MODOWORKING MACHINE. Copies of the Speci-fication may be obtained from the undersigned, to whom the Tenders, in plain sealed envelopes, endorsed "Woodworking Machine." must be delivered not later than 21st OCTOBER, 1960. J. E. COWDELL. Clerk of the Council.

Council Offices.

NEWTON ABBOT RURAL DISTRICT

STREET LIGHTING-GROUP "B."

STREET LIGHTING—GROUP of up to 10 FLUTED STEEL COLUMNS and BRACKETS. LANTERNS and TIME SWITCHES for Group "B" Lighting Units.

Specifications and Form of Tender can is obtained from the Engineer and Surveyor at this Office, and should be returned to the undersigned not later than TUESDAY, the 18th October, 1950.

The Council do not bind themselves to accept the lowest or any Tender.

W. SADLER, Clerk of the Council.

Council Offices, Kingsteignton Road, Newton Abbot. 1st October, 1960.

NEWTON ABBOT RURAL DISTRICT

STREET LIGHTING-KINGSKERSWELL-

TENDERS are invited for the SUPPLY. ERECTION and COMMISSIONING of 61 Group A' LIGHTING and COMMISSIONING of 61 Group A' LIGHTING Plans may be seen at, and the Specification and Bill of Quantities with Form of Tender obtained from the Engineer and Surveyor at this Office on payment of a deposit of \$2 25... by cheeue made payable to the Newton Abbot Rural District Council. The deposit of the Newton Abbot Rural District Council. The deposit council withdrawn, and the property of a bona-hot Tender not subsequently withdrawn. Tenders, in plain sealed envelopes, endorsed "Traffic Route—Street Lighting—Kingskerswell," to be delivered to the undersigned not later than TUESDAY. The Council of not bind themselves to accept the lowest of any Tender.

Clerk of the Council.

Council Offices, Kingsteignton Road, Newton Abbot, 1st October, 1960.

NEWTON ABBOT RURAL DISTRICT

SEWERAGE-WARE FARM, KINGSTEIGNTON

FIXED-PRICE TENDERS are invited from experi-ced civil engineering contractors for the PROVISION of LAYING of about 780 lin. yd. of 6in. and 9in. ia. FOUL WATER SEWERS.

ora. POUL WATER SEWERS.

Plans may be seen at, and the Specification and Bill of Quantities with Form of Tender obtained from, the Engineer and Surveyor at this Office on payment of a deposit of £2 25. by cheeque made payable to the Newton Abbot Rural District Council. The deposit will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders, in plain sealed envelopes endersed Water

bequently withdrawn. Tenders, in plain sealed envelopes, endorsed "Ware Irm Sewerage Scheme," to be delivered to the under-aned not later than TUESDAY, the 18th October, 150 signed not later than 1963.

The Council do not bind themselves to accept the lowest or any Tender.

W. SADLER. W. SADLER. Clerk of the Council.

Council Offices. Kingsteignton Road, Newton Abbot. 1st October, 1960.

WITNEY RURAL DISTRICT COUNCIL. WATER SUPPLY OF NORTH LEIGH, HANDBOROUGH AND FREELAND.

W.22/19 CONTRACT 3.

TO CIVIL ENGINEERING AND PUBLIC WORKS CONTRACTORS.

The above Council are prepared to receive TENDERS from experienced contractors for the CONSTRUCTION of approx. 53e miles of 6in. and 4in. dia. ASBESTOS-CEMENT WATER MAINS, the Construction of a Booster Station, and other anciliary work. Particulars and Specifications may be obtained, and Plans may be inspected, at the Offices of the Council and from Monday, 10th October, 1960, until Friday, 4th November, 1960, between the hours of 10 a.m. diameter of the Council has reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which had not subsequently been withdrawn and hence the council has reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which thad not subsequently been withdrawn and hence the delivered to the undersigned, in sealed envelopes endorsed "Tenders for Water Supply of North Leigh, Handborough and Freeland (W.22.19 Contract 3)," but bearing no name or other mark indicating the sender, not later than Noon on MONDAY, 14th November, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ERNEST ROWLES.

Circle to the Council.

ERNEST ROWLES, Clerk to the Council.

Witney R.D.C., Hillside, Witney, O tney, Oxon. October, 1960.

COUNTY BOROUGH OF NORTHAMPTON.

TENDERS invited, by 10 a.m., 28th OCTOBER, for the RECONSTRUCTION of approx. 600 lin, yd. of WELFORD ROAD, including Surfacing, Drainage, and ancillary works.

reciliary works. Including solutions of the control apply or ough Engineer, Guildhall, Northampton, enclosion on the control apply or the control apply or the control apply of t

SUPPLEMENT

BOROUGH OF DAGENHAM.

RAINHAM ROAD SOUTH, B.178—WIDENING AND IMPROVEMENT FROM DAGENHAM EAST STATION TO WANTZ CORNER.

TENDERS are invited for WORKS consisting of the LAYING of approx. 16,000 sq. yd. of REINFORCED CONCRETE and BITUMINOUS MACADAM CARRIAGEWAYS. SLAB PAVED FOOTWAYS. KERBING. SURFACE WATER DRAINAGE, and

WEISING. SUFFACE WATER DRAINAGE, and ancillars works.

ancillars works.

The sufface of the suff

KEITH LAUDER,

Civic Centre,

BOROUGH OF ROMFORD.

PROVISION OF BUS LAY-BY AND PART RECONSTRUCTION RUSH GREEN ROAD (A.124).

TENDERS are invited for the FOLLOWING:—

(a) Provision of Bus Lay-by, comprising approx.

125 sq. vd. of 8in. thick Reinforced Concrete slab, Taking up and Re-laying 60 lin. vd.

Granite Kerb, Taking up and Re-lay 300 sq. vd. Slab Paying, together with various ancillary works.

(b) Breaking out and Reconstructing approx.

1,000 sq. vd. 10in. thick Reinforced Concrete Carriageway, together with various ancillary

Contract developer and the terminate contract of the contract developer and surveyor. Town Hall, Romford, on deposit of cheque for £2 2s., returnable on receipt by me of bona-fide Tender, in envelope provided, by MONDAY, 24th October, 1950. JOHN E. SYMONS, Town Clerk.

BOROUGH OROUGH OF BEBING BEBINGTON.

BOREHOLE SURVEY-BROMBOROUGH AREA

TENDERS are invited from experienced contractors or the EXPLORATORY TAKING of approx. 500 n. ft. of 4in. dia. BORES in 31 BOREHOLES in order to verify for design purposes the existing histrata.

In. It. of white and the control of Survey," should be survey, and survey, and survey than 12 Noon on WEDNESDAT, as 1960.

The Council does not bind itself to accept the lowest or any Tender.

G. CHAPPELL.
Town Clerk.

Town Hall,
Bebington, Ches

OF CAMBRIDGE.

COMMITTEE FOR EDUCATION.

REDECORATION OF EDUCATIONAL BUILDINGS.

TO BUILDERS, PAINTERS AND DECORATORS.

It is intended to CARRY OUT EXTERNAL and INTERNAL REDECORATIONS of a NUMBER OF SCHOOLS during 1961.

Contractors who wish to TENDER for any or all of these Contracts should submit their names not later than Friday, 28th October, 1960, to the City Surveyor, Guildhall, Cambridge, who will in due Cambridge, who will in due Cambridge of the Schools, Specifications and General Conditions.

M. M. SCARR, City Education Officer

CANNOCK URBAN DISTRICT COUNCIL.

HIGHWAY WORKS-1960/61.

HIGHWAY WORKS—1960/61.

TENDERS are invited for the EXECUTION of VARIOUS CARRIAGEWAY and FOOTWAY WORKS on TRUNK, COUNTY and DISTRICT ROADS, Including the control of the co

The Council do not bind themselves to accept the rest or any Tender.

H. C. ALLEN, Clerk of the Council.

Council House,
The Green,
Cannock, Staffs.
Sutn September, 1960.

CONTRACTS

HUCCLECOTE, GLOUCESTER. A DEN.

TENDERS are invited for the CONSTRUCTION of 2000x. 1,2000x of ESTATE ROAD WORKS, excluding urlacing, together with Storm and Foul Water Sewers do Outfalls, and the normal appurtenances. Plans de Specification and Tender Form may be obtained application to the following address on or before 15th OCTOBER, SEWEDDOLLIGH, ESTATES, LTD. NEWBOROUGH ESTATES, LTD.

Vulcan House, Vulcan Road, Solihuli,

For Contracts received too late for classification see page 65

APPOINTMENTS VACANT

DURHAM COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

PERMANENT TECHNICAL POSTS are available for a few a suitable men as I UNION E NIGNEERING ASSITANTS on Grades up to, and including, the Special Grade (£7265-£1.070 per annum).

Applications will be welcomed from University Graduates in Civil Engineering.

Promotion to the Special Grade is automatic on obtaining qualifications and subject to satisfactory service. It is also the policy of the County Council to promote Internally to fill vacancies for Senior Engineering.

Successful candidates will be able to obtain valuable experience on road and bridge design and soil survey in connection with preparation and execution of major improvement schemes, including a large new motorway project, over 30 miles in length, for which the County Council are to act as Rented housing accommodation at the New Town of Newton Aycliffe. In congenial surroundings, is normally available. Day release facilities and financial assistance are given to officers wishing to continue their studies in order to complete their final professional qualifications in the organisation of the Debtainable from the County Surveyor, Aykley Heads, Durham.

I. K. HOPE.

Clerk of the County Council.

J. K. HOPE, Clerk of the County Council.

Shire Hall, Durham. 21st September, 1960.

BOROUGH OF BURY ST. EDMUNDS. MAIN OUTFALL SEWER.

APPOINTMENT OF RESIDENT ENGINEER.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited by the Council from persons of considerable experience for the APPOINT-MENT of RESIDENT ENGINEER.

MENT of RESIDENT ENGINEER.

The Salary offered is £1.100 per annum, and consideration will be given to additional expenses in connection with subsistence allowance. The appointment is temporary, but will be for a minimum period of three years. appointed will be responsible to the Total Connection of the Connect and Surveyor, G. S. STANDLEY.

A.M.I.C.E. M.I.M.M.E., to whom applications, giving full details of experience, age and qualifications. Giving full details of experience, age and addresses of three referees, should be sent not later than 3rd NOVEMBER next.

RICHARD R. HILES, Town Clerk.

Borough Offices, Bury St. Edm

CITY OF CARDIF F.

CORPORATION WATERWORKS.

LLANDEGFEDD WATER SCHEME-SECTION B.

APPLICATIONS are invited for the TEMPORARY APPOINTMENT (superannuable) of ASSISTANT RESIDENT ENGINEER, to be engaged upon the design and construction of river intake works, large pumping plants, large-diameter mains and treatment plant. Candidates should have experience of similar works at the institution of Civil Engineers.

The commencing salary will be £1,250 per annum, subject to review on the progression of the works, and the Corporation are prepared to assist in the provision of housing accommodation in the area. Further information on Conditions of Service concerning this appointment may be obtained from Greyfriars Road, Cardiff.

Applications, together with the names of two referees, should reach the undersigned, appropriately endorsed, not later than the 14th OCTOBER, 1960.

S. TAPPER-JONES.

City Hall, Cardiff. September, 1960.

CHEADLE AND GATLEY URBAN

APPOINTMENT OF HIGHWAYS SUPERINTENDENT APPLICATIONS are invited from suitable persons for the ABOVE POSITION.

APPLICATIONS are invited from suitable persons for the ABOVE POSITION.

Applicants must have a good experience relating to all highway and sewer construction and maintenance, and labour supervision. Previous service with a local authority will be an advantage.

The salary will be within the Grade A.P.T. II (£765-£880), depending upon qualifications and experience, and applicants must hold a current driving call for hours of duty in excess of 44 hours per week, as conditions demand.

The position is subject to one calendar month's notice on either side.

Applications, endorsed "Highways Superintendent," sexting age present and previous appointments, they referees, must reach the undersigned not later than SATURDAY, 15th October, 1960.

The Council will consider the provision of housing accommodation.

RICHARD ROBERTS.

RICHARD ROBERTS, Clerk of the Council.

Town Hall, Abney, Cheadle, Ches. 22nd September, 1960.

APPOINTMENTS VACANT

SENIOR EXECUTIVE ENGINEER

PROTECTORATE WORKS SERVICES.

Qualification: Candidates, aged 35-45, must be A.M.I.C.E. Duties: To survey and addition Qualification: Candidates, aged 35-45, must be AM.I.C.E.

Duties: To survey and advise on the public works requirements in the Aden Protectorate, and to plan sequirements on contract for one tour of 18-24 months in the first Instance, with gratuity on satisfactory completion of engagement of 12¹2 per cent, of aggregate salary drawn.

Salary: £2.015 per anum.

Salary: £2.015 per anum.

Poly Directors OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name, age and brief details of qualifications and experience. Quote BCD.112/2/08.

COUNTY BOROUGH OF EAST HAM. SENIOR ASSISTANT ENGINEER (GENERAL)— GRADE III (£880-£1,065).

London Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualification and experience. A subsistee and experience may be granted over a reasonable period of the property of the propert

COUNTY BOROUGH OF EAST HAM. ENGINEERING ASSISTANTS, A.P.T. I-SALARY UP TO £805 PER ANNUM.

Subsistence allowances may be granted over a easonable period to the persons appointed if nable to obtain suitable housing accommodation, ecessitating the maintenance of two homes. Further details and Application Forms, returnable y 14th OCTOBER, 1960, from the TOWN CLERK, own Hall, East Ham, E.6.

BOROUGH OF WESTON-

The COUNCIL is actively engaged on the construc-n of an extensive Main Drainage Scheme estimated

The COUNCIL is actively evidence of the council pay an annual progress bonus which is approximately equivalent to an additional increment.

N.i.C. Service Conditions: post pensionable. Removal expenses repaid over a period of two years. Housing actively evidence of the council is approximately equivalent to an additional increment.

N.i.C. Service Conditions: post pensionable. Removal expenses repaid over a period of two years. Housing active progress of the council is approximately equivalent to an additional increment.

Applications, on forms to be obtained from the BOROUGH ENGINEER. Town Hall, Weston-super-Mare, to arrive by MONDAY, 24th October, 1960.

BOROUGH OF BEXLEY. CLERK OF WORKS.

CLERK OF WORKS.

Salary up to £20 per week, according to experience. The appointment is temporary (approx. nine months in the first instance) and subject to one month's notice on either side.

Applicants must have had experience in supervising the sewers and roadworks contained to surface water experience in supervising the sewers and roadworks.

The sewers and roadworks contained the sewers and roadworks experience in surface water sewers and roadworks.

The sewers and roadworks are sewers and roadworks experience in setting-out, measuring-up, keeping records, etc.

Forms of Application and Conditions of Appointment are obtainable from the Borough Engineer, west Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by 15th OCTOBER, 1960.

Canvassing will disqualify.

ARTHUR GOLDEINCH.

ARTHUR GOLDFINCH. Town Clerk.

CITY OF CARDIFF. CORPORATION WATERWORKS.

APPOINTMENTS OF ENGINEERING ASSISTANTS

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS:

(a) Mechanical Engineering Assistant—Grade A.P.T.

Candidates for post (a) must be suitably qualified, preference being given to Corporate Members of the Institution of Mechanical Engineers, and should have had experience of pumping installations and plant maintenance.

had experience of pumping installations and phanimaintenance.

A andidates for post (b) must have passed Parts Candidates for post (b) must have passed Parts Candidates for the Examination of the institution of the Institution of the Cardidate for the Examination of the Institution Civil Engineering. Of Appointment can be obtained from the Water Engineer and Manager, Municipal Offices, Greyfriars Road, Cardiff, and applications, stating age, previous experience, and qualifications, stating age, previous experience, and qualifications, the undersigned, in envelopes appropriately endorsed, on or before the 14th OCTOBER, 1960.

S. TAPPER-JONES.

ptember, 1960.

WEAR AND TEES RIVER BOARD. SENIOR ASSISTANT ENGINEER-A.P.T. GRADE IV (£1,065-£1,220 P.A.).

APPLICATIONS are invited for the ABOVE VACANCY from qualified Engineers. The commencing salary will be fixed in accordance with experience and qualifications. The successful candidate will be required to provide and maintain a car not exceeding 10-h.p. (1,199 c.c.), with N.J.C. Essential Users' Allowances. Assistance in the purchase will be given if required.

Allowances. Assistance in required.

The appointment is pensionable and will be subject to the Local Government Superannuation Act, 1953, and to medical examination.

Application forms are obtainable from the Chief Engineer, MR. C. CLAY, B.Sc., A.M.I.C.E., at this address, and should be returned to him not later than 15th OCTOBER, 1960.

J. E. LAVEN.

Greencroft East.

Greencroft East.

158 Coniscliffe Road,
Darlington.

APPOINTMENTS VACANT

HERTS. COUNTY COUNCIL.

A HIGHWAYS ASSISTANT IS REQUIRED on Misc. Grade IV/V (£625-5760 p.a.). Candidates will be required to assist the Divisional Surveyor in the supervision of roadworks carried out by contract or direct labour. A knowledge of surveying and levelling would be an advantage. In the Western Highways Division, and the person appointed will be required to live in the vicinity of Watford or Hemel Hempstead, and should be able to drive a car or motor-cycle (allowance payable). Post pensionable. The commensurate with the age and experience of the successful applicant.

Applications, giving age, details of education and experience, together with the

autocessiul applicant.
Applications, giving age, details of education and experience, together with the names of two referees, to COUNTY SURVEYOR, County Hall, Hertford, by 14th OCTOBER.

METROPOLITAN BOROUGH OF

ASSISTANT ENGINEER—Salary Scale £645-£815 p.a. (A.P.T. 1) or £840-£1,145 p.a. (Special Scale), acrea in the salary figures are those of a new award which is subject to confirmation. London Weighting, varying between £15-£40 p.a., according to age, is payable in addition to above Scales. Further particulars and Form of Application from the DOWN ELERK (Dept.)), Lewisham Town Hall, London Electric Cope. (Special Scale) and Electric Closing date: 20th OCTOBER, 1960.

APPOINTMENT OF SENIOR ENGINEERING

APPLICATIONS are invited for the ABOVE-MENTIONED APPOINTMENT in the Boroush nervees Department at a salary within Grades APPTI II to the Special Grade, according to qualifications and experience. The National Scheme of Conditions of Service and the Superannuation Acts apply.

onditions of service consider provision of housing The Council will consider provision of housing commodation for the successful applicant if

accommodation for the accommodation for the Applications, stating age, qualifications and experience, with copies of two recent testimonials, must be received by the undersigned not later than the 17th OCTOBER, 1960.

ROBERT POTTER, Town Clerk.

Town Hall, Chorley. 27th September, 1960.

MATLOCK URBAN DISTRICT COUNCIL.

DARLEY DALE SEWERAGE.

APPOINTMENT OF—(1) RESIDENT ENGINEER, and (2) ASSISTANT CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENTS to supervise the laying of concrete salt glazed ware and cost-iron sewers, the construction of four sewage pumping stations, and the installation of machinery, under the direction of the ABOVE ADDORD AND SON.

The salary of the Resident Engineer will be £1,250 per annum, and rented housing accommodation will be made available if required.

Applicants must have been trained as Civil Ingineers and have had experience in this type of work, which the sale of the sale of

Solicitor and Clerk of the Council. Town Hall, Matlock, Derbys. 28th September, 1960.

RURAL DISTRICT COUNCIL OF

UPTON ST. LEONARDS SEWERAGE SCHEME.

APPOINTMENT OF RESIDENT ENGINEER.

Applications are invited for this APPOINTMENT and should reach invited for the should reach invited for the should reach a service of the several should reach a service of two recent testimonials are consistent of the appointment is of a temporary nature, for a period of approx. 12 months. A motor car is not essential.

W. J. KNIGHT, Clerk to the Council.

29 Brunswick Square, Gloucester. 29th September, 1960. UPPER WITHAM INTERNAL DRAINAGE

GENERAL FOREMAN

GENERAL FOREMAN.

APPLICATIONS are invited for the ABOVE POSITION, duties to include the supervision of drain ment and contract within the spard's were at 44,000 acres, together with inspection of land drainage pumping stations and control structures.

A salary of £15 per week will be paid, and previous experience on land drainage works would be an advantage. Transport will be provided by the Board, and the successful applicant will be resulted to reside in or near Lincoln. A house is available on a Application Forms are available from the undersigned, and must be completed and returned not later than SATURDAY, 22nd October, 1960.

J. BARNATT, A.M.I.C.E., Engineer to the Board. 39 St. Catherine's,

APPOINTMENTS VACANT

ROYAL COUNTY OF BERKSHIRE.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS on the STAFF of the COUNTY SURVEYOR:

APPOINTMENTS on the STAFF of the COUNTY SURVEYOR:

(1) Traffic Engineer—A.P.T. Grade IV (£1,140-£1,310).

(2) Senior Assistant Engineer—Ditto.

(3) Grade IV (£1,510-£1).

For post (1) applicants should be suitably qualified and have had experience in highway design and construction, as well as traffic engineering. The commencing salary will be within the grade in accordance with qualifications, training and experience. For post (2) applicants must be qualified Engineers and have had experience in bridge design and properties of the properties of

and have had experience in bridge design and construction.

For post (3) applicants should he suitably qualified, and is required for the inspection of bridges and the supervision of smal' bridge repair contracts.

All three posts are located at Head Office, Reading, and will carry the option of an Essential User car allowance or accepting a Council-owned car on approved conditions.

Forms of Application obtainable from, and returnable to, the COUNTY SURVEYOR, Shire Hall, Reading, not later than MONDAY, 24th October, 1960.

FLINTSHIRE COUNTY COUNCIL.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING APPOINTMENTS in the County Surveyor's Department. Mold:

APPOINTMENTS in the County Surveyor's Department, Mold:

(a) Private Street Works Assistant—A.P.T. III
(5950-£1.140 p.a.).

(b) Engineering Assistant—Special Grade (£840-£1.145 p.a.).

(£1.145 p.a.).

Applicants for (a) should have some experience in Private Street Works and in the application of the New Streets Act: and for (a) and (b) should preferably be University graduates or have passed the Final Examination of the Institution of Civil Engineers or the Institution of Municipal Engineers, (c) should have some experience of the Institution of Municipal Engineers, (c) should have some of the Institution of the Institution of the Institution of the Institution of Civil Engineers or the Institution of The Institution of the Institution of Civil Engineers or the Institution of The Institution of Civil Engineers or the Institution of The Institution of Municipal Engineers, (c) should have been some of the Institution of The Institu

BOROUGH OF WORTHING.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Borough Engineer's Department on Grade A.P.T. IV.. i.e., £1,140-£1,310 0.a.;

(a) You share assent the final Examination of the R.I.B.A., or its equivalent at a recognised school of architecture. The appointments will be subject to the National Conditions of Service to the National Conditions of Service to the Conditions of Service to the Subject of Conditions of Service to the National Superanuation Acts: and to the successful candidates passing satisfactorily a medical examination. Applications, stating age, qualifications, experience, present and past appointments, with dates, and accompanies of the Conditions of Service and Surveyor, Town Hall, Worthing, not later than 17th OCTOBER, 1960.

CATERHAM AND WARIINGHAM

CATERHAM A N D WARLINGHAM

APPOINTMENT OF TEMPORARY CLERK OF

APPLICATIONS are invited for the APPOINT-MENT of a TEMPORARY CLERK OF WORKS for a period of 12 months at a weekly wage of £16. The person appointed will be required to supervise the construction of buildings and road and sewer works by contract and must have a sound knowledge of building and road construction and the trades

Applications, giving details of age, present appointment and previous experience, together with the names of two referees, must he submitted to the Engineer and Surveyor not later than 4 p.m. on the 19th OCTOBER, 1960.

B. J. SMERDON, Clerk of the Council.

Council Offices. Caterham.

BIRMINGHAM TAME AND REA

CIVIL ENGINEERS.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS on the STAFF of the Engineer to the Board, M. R. VINCENT DAVISS, B.Sc., M.I.C.E., at Rookery Park, Erdington, Birmingham. The Board is engaged upon design and construction programmes amounting to £15m.:

Senior Assistant Engineers—
A.P.T. Grade V (£1,220-£1,375)—one appointment on temporary establish-

appointment on temporary establishment.

A.P.T. Grade IV (£1,265-£1,220)—one appointment on temporary establishment.

A.P.T. Grade IV (£1,065-£1,220)—one appointment on temporary establishments.

Applicants should be Corporate Members of The Institution of Civil Engineers, experienced in sewage purification works and/or structure in the sewage purification of teading a design or permanent establishments.

Junior Assistant Engineers—A.P.T. Grade III (£880—000 on appointment on temporary or experience in the sewage parts of the sewage passed Parts I and II of the Associate Membership Examination of The Institution of Civil Engineers, or (a) hold a Degree in Civil Engineering and, in the case of Assistant Engineers, how at the sewage in th

ARTHUR J. WRIGHT. Clerk to the Board.

C'erk's Office, Lombard House, Lombard House, Great Charles Street, Birmingham, 3. 29th September, 1960.

APPOINTMENTS VACANT

STATES OF JERSEY.

SEWERAGE BOARD.

APPLICATIONS are invited for the APPOINTMENT in the Consultant Engineer's Office of an ASSISTANT CIVIL ENGINEER for the design of sewers and

imping stations.

Commencing salary will be in the range £810-£950 er annum.

er annum.

Appointments are temporary, terminable by one onth's notice on either side, but anticipated duration at least two years.

The States of Jersey does not undertake to provide pusing accommodation.

Applications, giving full details of training, qualifications, present and previous appointments, stating age, and whether married or single, and enclosing copies f testimonials, should be delivered to the undersigned s soon as possible.

(Signed) S. AVERILL GOTHARD, B.Sc., M.I.C.E., Hon. M.Inst.S.P., Consultant Engineer.

Public Health Offices, South H'll, St. Helier, Jersey.

DROYLSDEN URBAN DISTRICT

RESIDENT ENGINEER.

RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER for the supervision
of the Council's Consulting Engineers, MESSRS. W.
HERBERT BATEMAN AND PARTNERS.
The work comprises the construction of approx.
24h. yd. of new main sewers varying in size
from 24h. yd. of new main sewers varying in size
from 24h. yd. of new main sewers varying in size
from 24h. yd. of new main sewers varying in size
from 24h. yd. of new main sewers varying in size
from 25h. to several the service of approx.
Condidates for the appointment are required to
have had considerable experience of sewer construction
and of work in tunnel,
salary for the appointment is £1,200 p.a. and
the salary for the appointment is £1,200 p.a. and
the salary for the appointment is £1,200 p.a. and
the salary for the appointment is £1,200 p.a. and
the office ide.
Applications for the appointment, endorsed
Resident Engineer. giving full particulars of the
candidate's age, experience, present appointment, and
stating when free, together with copies of three testimonials, or the names of three referees, should be
submitted to the undersigned not later than 22nd
OCTOBER, 1960.

G. S. HEPTON.

G. S. HEPTON, Clerk of the Council. Council Offices, Drovisden, Lanc

WYCOMBE RURAL DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

PENN AND TYLERS GREEN SEWERAGE SCHEME APPLICATIONS are invited for the ABOVE APPOINTMENT at a salary of £880 p.a. plus a car allowance in accordance with the N.J.C. Scale for a car not exceeding 1,199 c.c. on an Essential User basis.

APPOINTMENT and allowance with the N.J. and allowance in accordance with the N.J. and allowance in accordance with the N.J. and Essential User basis.

Output with the prepared to assist in providing housing accommodation if necessary.

The appointment will be for a new providing accommodation if necessary and offers good oractical experience for an Assistant interested in outside work and supervision of large contracts, as well as to those previously engaged as Clerks of Works or Resident Engineers. works, be capabled of even the experience of similar works, be capabled of even the experience of similar works, be capabled of even the experience of similar construction works.

Applications, stating age, qualifications and experience, together with the names and addresses of the experience of th

L. C. RYSDALE, Clerk of the Council.

17 High Street, High Wycombe,

L O N D O N MASTER BUILDERS

APPOINTMENT OF SECRETARY.

APPOINTMENT OF SECRETARY.

APPLICATIONS are invited for APPOINTMENT as SECRETARY of the ABOVE ASSOCIATION, which is the London Region of the National Federation of Building Trades Employers. He will be responsible, subject to the general authority of the Director, for the council, and also for general authority of the Director, for the second of the Association. It is desirable that the Secretary should have experience of a similar Employers' Organisation and for industrial negotiations, and he should preferably have a legal background.

The successful candidate should be available to take up his duties by 1st January, 1961. The commencing salary will be not less than £1,750 p.a., depending upon the council of the secretary should have the council of the secretary should be represented the publications and experience of the publications and experience of the publications and experience of the publication of the persons interested should write by 14th October for full details of duties and for an Application Form which is returnable not later than 28th OCTOBER to the DIRECTOR at 47 Bedford Square, London, W.C.1, the envelope being marked "Secretary" in the top left-hand corner.

LONDON MASTER BUILDERS

NATIONAL CONTRACTORS GROUP.

NATIONAL CONTRACTORS GROUP.

APPLICATIONS are invited for APPOINTMENT of SECRETARY OF THE NATIONAL CONTRACTORS GROUP of the ABOVE ASSOCIATION (which is the London Resion of the National Federation of Building Trades Employers). He will be responsible, subject to connection with the Committees of the Group and for conducting its affairs. He may also be allocated certain other duties in the Association.

It is desirable that the Secretary and have severience of a similar to the secretary of the severe of the Group and the Group an

SUPPLEMENT

IMPERIAL ETHIOPIAN GOVERNMENT.

APPLICATIONS are invited for the POST of HIGHWAY CONSTRUCTION EQUIPMENT INSPECTOR under the Imperial Highway Authority

The candidate must be a qualified mechanic. He will be responsible for the repair, overhaul, inspection, maintenance and operation of heavy equipment and the supervision of workshops.

Salary—£1.715 by annual increments to £2.400 per annum.

Salary—£1.715 by annual increments to £4.80 per annum.
Housing allowance, as appropriate, from £463 to £655 per annum.
The combined Ethiopian income tax on salary and housing allowance is £260 minimum to £460 maximum per annum. Contract for one or three years. Free passage for official on completion of contract. Family passages given only where three-year contract.
Applications, in writing, to Room 140, FOREIGN OFFICE, London, S.W.1.

DICK HAMPTON REQUIRES YOUNG ENGINEERS to measure earthwork quantities, assist Contracts Manager, and estimating. Permanent future in expanding, successful organisation.—DICK HAMPTON, LTD., Broadview Farm, Blacknest, Alton, Hants. Tel.: Bentley 2241-2.

Bentley 2241-2.

By Terrange of the second o

Whipton, Exeter. Tel.: Exeter 66216/8.

EXPERIENCED SITE ENGINEERS/SURVEYORS REQUIRED by civil engineering contractors based
in Hull. Fully experienced setting-out measuring
valuations appervision. Pension and life assurance
scheme in operation. Excellent prospects for right
man.—Write, giving full details, in strictest confidence, to Box V.2746, "The Contract Journal."

ASSISTANT QUANTITY SURVEYOR Of intermediate taking widening experience. Professional minster. S-day week. Luncheon pension salary required, to Box V.2753, "The Contract Journal."

BRISTOL-BIRMINGHAM MOTORWAY BRIDGES SECTION

WILSON LOVATT AND SONS, LTD., invite applications from fully trained men for the following positions. Good terms and opportunity for advancement within the company's expansion programme:

SITE ENGINEERS
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Site Agent, Contractors' DMcs, WILSON LOVATT AND SONS, LTD., Wychbold, near Droitwich, Worcestershire.

PIRM of national building contractors REQUIRE First-class REINFORCED CONCRETE GENERAL FOREMEN for work in Northern Area. Permanent and pensionable positions for right applicants.—Write to Box L.L.398, "The Contract Journal."

to Box L.L.398, "The Contract Journal."

TOP-CLASS GENERAL FOREMAN REQUIRED for medium- and large-sized building contracts in Southern England. High-calibre mess required for good salary with bonus scheme in operation.—Apply to Personnel Manager, T.G. CONSTRUCTION CO., Ettingshall, Wolverhampton.

QUANTITY SURVEYOR REQUIRED by civil engineering contractors, for permanent appointment at head office. This is gener appointment at head office. This is gener appointment and applicants must have wide experience of civil engineering and building work, with a knowledge of estimating.—Apply, giving full details of experience, to Managing Director, THOMAS FLETCHER AND CO., LTD., Mansfield, Notts.

SENIOR SITE ENGINEERS REQUIRED for road-works and main drainage contracts in the Oxfordshire area. Salary range of £1,000/£1,250 p.a. Permanent and progressive post, with superannuation scheme.—Write in confidence, stating age, full details of experience, and past employers, etc., to Box V.2788, "The Contract Journal."

CONTRACTS SUPERVISORS REQUIRED for building contracts in Southern England, Values of
contracts range from E-lm. to £1m. Permanent
appointments with good prospects and top salary;
bonus and superanuation schemes in operation.
Applications to Personnel Manager, T.G. CONSTRUCTION CO., LTD., Ettingshalt, Wolverhampton.

YORKSHIRE PRESTRESSED CONCRETE MANUFACTURERS

Progressive prestressed and precast manufacturers REQUIRE WORKS MANAGER, preferably with knowledge of this industry, though not essential if applicant has proven record in the civil engineering industrator, the must be a first-class organiser and administrator, capable of controlling labour and production to a consentive standard. Generous salary and car to the competitive standard. Generous salary and car out the competitive standard. Generous salary and car qualifications, experience and indication of salary range, to:

BOX V.2784, "THE CONTRACT JOURNAL."

A SSISTANT ENGINEER/SURVEYOR REQUIRED for Maint ENGINEER/SURVEYOR REQUIRED for land and surveys, design of roads and sewers, setting-out and supervision of roadworks by direct labour. Applicants should have received professional training and have had site experience. Age preferred, so the prospect of the prospe

SITE MEASURING SURVEYORS REQUIRED for Harwell and Aldermaston. Interesting work of long-term contracts.—State age, experience, aslary required, to Managing Director, W. CHIVERS AND SONS, LTD., Devizes, Wilts. Tel Devizes 121.

APPOINTMENTS VACANT

TARMAC ROADSTONE, LTD., REQUIRE OFFICE MANAGER for surfacing department. Wolver-hampton. Applicants should have go a contractors. Permanent rosition and superannuation scheme surfacing Manager, Economac House, Dunstall Road, Wolverhampton.

Wolverhampton.

CONSULTING ENGINEERS in Westminster structure of consultation of the c

CIVIL ENGINEERING contractors REQUIRE ASSIST-ANT CIVIL ENGINEERS for North-West Scotland. Must be prepared to stay away from home. Attractive prospects. State experience and salary.—Write 1991. Wm. Porteous and Co., Glasgow.

ASSISTANT SURVEYOR

REQUIRED for the head office of building and civil engineering contractors in Westminster. Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to assisting with preparation of final accounts.—Apply in writing, giving age, complete details of training and salary

BOX V.2749. "THE CONTRACT JOURNAL."

A SSISTANT RESIDENT ENGINEER REQUIRED for long-term coke oven and bi-product contract in Yorkshire. Age 25/30 years. Graduate Civil Ingineer or A.M.I.C.E. preferred. Must be interested in the construction of complete industrial plants, including structural steelwork, pipework, heavy vessels and refractory brickwork. Should be prepared to travel at staff appointment, with pension rights, and carries good prospects. Salary will be in accordance with qualifications and experience.—Applications, quoting Ref. AR.115, in confidence, to Contract Labour Department, SIMON-CARVES, LTD., Cheadle Heath.

Stockport.

GENERAL FOREMEN (Building), Midlands area, for a leading building and civil engineering company with an expanding organisation. Must have carried out large-scale contracts, including concrete-tramed multi-storey structures. Able to adhere to procedure the same of the structures of the same of

QUANTITY SURVEYOR

(Aged 28 to 35 years) REQUIRED urgently by City engineering firm with world-wide interests. Applicants should be fully experienced in all aspects of Q.5. work, with emphasis on civil engineering. Must be prepared to travel. A good salary is offered and prospects are above average. Pension fund and luncheon clustifications. Write details age, training and experience:

(I.A.M./251).
BALFOUR, BEATTY AND CO., LTD.,
Bow Bells House.
Bread Street, Cheapside, London, E.C.4

WORKS MANAGER REQUIRED to take complete charge of new concrete factory shortly to be opened by ANGLIAN BUILDING PRODUCTS, LTD Lenwade, Norwich Only first-class and experienced memoration of the complete of

GENERAL FOREMEN REQUIRED. Mainly reinforced concrete sewage disposal works, etc.—KOTTLER AND HERON, LTD., Northampton.

AND HERON, LTD., Northampton.

SALES MANAGER REQUIRED. We wish to increase our sales still further in the Southern Counties and can offer a really progressive position to an individual who can produce good results. Naturally, all applications will be treated in the strictest confidence.—GREENHAM EQUIPMENTS, LTD., Clayton Road, Ruiship Road, Greenford, Middx.

NOAD, RUISID ROAD, Greenford, Middx.

SITE FITTER REQUIRED. Must be fully conversant with Caterpillar equipment of all types; prepared to travel occurrence and carvain accommodation supplied. Permanent position for a conscientious man, write full particulars of previous employers, references and age, to Box V.2769, "The Contract Journal."

Journal."

M. JONES AND SONS, LTD., REQUIRE CIVIL
BOSINEER to control civil engineering division. The successful applicant will be required to reorganise and develop the division. Progressive appointment with staff pension and life assurance, and assistance with housing if necessary.—Apply with details of which provides the provided and the pro

GENERAL FOREMAN

£25 per week and bonus, REQUIRED for multi-storey flats contract in East London. Preferably a carpenter by trade. — Write, in the strictest confidence, stating age, experience and all relative details, to:

BCX V.2786, "THE CONTRACT JOURNAL."

TECHNICAL ORDER SURVEYOR. — Permanent vacancy for fully trained Surveyor, age range 26-38 years, with H.N.C. in Building, and experienced with bills, specifications, drawings, and can take-off material schedules and make Joinery detail drawings for all classes of work. The position will be based at head office in Wolverhampton. Applicants should get in touch with us to discuss terms and conditions. WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

MANAGER REQUIRED for building and civil engineering contractors, Birmingham. Commencing salary £2,000 per year plus car. Good prospects. Only fully experienced and good-class mened apply, All replies treated in strictest confidence. Write, giving full details, to 8ox V.2780, "The Contract Journal."

WNTED—Experienced QUANTITY SURVEYOR for contractors' head office in Cumberland. Must have sound knowledge of site measuring, valuations, final accounts, etc.—Write, stating age, experience, and salary required, to Box V.2779, "The Contract

APPOINTMENTS VACANT

SITE ENGINEERS REQUIRED for building contracts London area. Must have considerable experience in multi-storey concrete-framed buildings. Good salary for men with initiative.—Apply in writing, stating age and experience, to M. J. GLESON (CONTRACTORS), LTD., Haredon House, London Road, North Cheam, Surrey.

Cheam, Surrey.

COST AND BONUSING CLERK REQUIRED for interesting work in flooring specialist's office. With knowledge of the building dustry, Good prospects in the company—Write, with details of age, experience, and salary required, to Box V.2783, "The Contract Journal."

BullDing EstimArds.—An opportunity exists for a man experienced in estimating for all types of building works and preferably having A.1.8.E., L.1.0.8. or H.N.C. qualifications. Should you be a suitable applicant, we can offer a good salary and favourable conditions.—Please get in touch will.SON LOVATT AND SONS, LTD., clarence Street,

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ENUITERING INDUSTRIES)

SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD., invite applications for the superannuable appointment of BUYER at an annual salary of £1,450. Candidates must be keen and energetic and have sound administrative ability, allied to extensive experience of an argue-scale bulk buying for the building and of the superant of the supera

The Secretary,
SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD.,
15/21 Palmerston Place, Edinburgh.

A PPLICATIONS are invited for the following positions in the structural engineering section of a major building and civil engineering contractor:

CONTRACTS MANAGER — preferably a qualified Structural Engineer who has had good experience in charge oil arge contracts; SITE ENGINEER—preferably qualified and experienced in setting-out on large be an asset; ENGINEER, DRAUGHTSMAN—with good experience in temporary works design and design of subtreing. The appointments are to the permanent staff and offer excellent opportunities for advancement. Good salary and conditions. Bonus and superannuation schemes are in operation.—Please send full details to Box C.M.3877. A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

CONSULTING ENGINEERS REQUIRE an ENGINEER ING ASSISTANT with experience of water supply, sewerage and reinforced concrete design. Progressive position: contributory pension scheme. Applicants must have Parts "A" and "B" of work of this type. Salary in accordance with age and qualifications.—Apply in writing to MESSRS. JOHN DOSSOR AND ASSOCIATES, 54 Broad Street, Worcester.

Worcester.

F. w. SHANKS, LTD., Building and Civil engineerprocessing contractors. Hunstanton, Norfolk, have a
vacancy on their permanent staff for an ESTIMATOR;
SURVEYOR, Applications are invited from men aged
25-45 who, preferably, have gained experience with
medium-sized firms in both building and civil
engineering work.—Written applications must give
age, fullest details of education, training and experience, with salary required, indicating when free to
accept appointment.

accept appointment.

LYNL EMCINEER REQUIRED for civil engineering contracts in einforced concrete bridgeworks and sewage draws works buccessful applicant would be required to work under the control of a Civil Engineering Agent, and previous experience in this type of work is essential. Excellent prospects are offered in a well-established and expanding organisation. We have a progressive staff policy operating superannuation, profit-sharing schemes, and assistance in car purchase.—For further details and application form, apply Bryant, Managing Director, C. BRYANT AND SON, LTD., Small Heath, Birmingham, 10.

GEORGE WIMPEY AND CO., LTD.

Invite applications from CIVIL or MUNICIPAL ENGINEERS for appointments in their London and Newcastle offices. Applicants should have considerable its property of the property of the standard of the institution of Civil Engineers or Municipal Engineers is essential. The successful applicants would be responsible for all matters in connection with the the direction and control of staff engaged upon the design of such matters. Commencing salary range \$1,200-£1,500 per annum. A car will be provided and staff pension scheme is in operation.—Applications to:

Establishment Officer (2G), GEORGE WIMPEY AND CO., LTD., 27 The Grove, Hammersmith, London, W.G.

SITE MEASURING AND COSTING SURVEYORS and SURVEYORS' CLERKS REQUIRED for contracts in the Newport, Hertfordshire and Lincolnshire areas. Local main preferred but opportunities to travel later. Age approximately 21 to 30. Should have had previous site experience and knowledge of standard methods of measurement.—Apply in confidence to the Contract Labour Dept., SIMON-CARVES, LTD., Cheadle Heath, Stockport, Cheshire, quoting Ref. SC.112.

VAL DE TRAVERS ASPHALTE REQUIRE CON-TRACTS SUPERVISOR experienced in rolled asphalt and tarmacadam works.—Replies, treated in strictest confidence, to Midland Area Manager, 5 Lower Temple Street, Birmingham, 2.

SENIOR ESTIMATOR REQUIRED by firm of civil engineering contractors. Head office appointment, Reading area. Permanent and progressive post with superannuation scheme in operation.—Write in confidence, stating age, full details of experience, with past employers, and salary required, to Box V.2789, "The Contract Journal."

A SSISTANT to Chief Buyer REQUIRED. So experience essential.—Apply, in writing, giving details and salary required, to Chief Buyer G. PERCY TRENTHAM, LTD., Pangbourne, Reading Registrices.

APPOINTMENTS VACANT

QUBITTS.—Applications are invited from: ESTI-MATORS, preferably aged 35 or over, who have good experience of tendering either for major heavy civil engineering works of medium-sized building contracts in and around London; SURVEYORS, fully experienced in variations and interim and final accounts. The positions are permanent and offer good opportunities for progress in an expanding organisation.—Please send full details to Personnel Manager opportunities oversions are permanent and offer good tion.—Please send full details to Personnel Manager (CJ8803), HOLLAND & HANNEN AND CUBITTS (G.B.), LTD., 1 Queen Anne's Gate, London, S.W.1.

(G.B.), LTD., 1 Queen Anne's Gate, London, S.W.1.

CUBITTS,—Applications are invited for positions of the control of large structural engineering contracts: COST SURVEYOR, with good experience of unit costing and incentive bonus schemes; OFFICE MANAGER: COST CLERKS. The appointments are permanent and offer scope for advancement, together with interesting and varied work, and good conditions.—Successful applicants with the based at Bristol or an afte in Subholide service of the control of the cont

QUANTITY SURVEYORS

Owing to our continued expansion, we REQUIRE the following additional quantity surveying staff:—
SENIOR QUANTITY SURVEYOR With considerable experience, for long-term building and civil engineering contract in West Cumberland.

SENIOR QUANTITY SURVEYOR
With considerable experience, for long-term building
and civil engineering contract in West Cumberland.
Quote Ref. SQS.1.
TWO ASSISTANT QUANTITY SURVEYORS
For hydro-electric contracts in inverness-shire and
Argylishire. Quote Ref. AQS.11
For building and the engineering contract in Yorkshire.
Quote Ref. AQS.12
The appointments are permanent, with excellent prospects and good salary. Appications, giving details of
age. training and experience, will be treated in the
strictest confidence.

THE MITCHELL CONSTRUCTION CO., LTD., Building and Civil Engineering Contractors, Wharf Works, Peterborough, Northants.

CUBITTS.—HOLLAND & HANNEN AND CUBITTS (G.B.). LTD., have vacancies for: AGENTS with good experience in control of large building or structural engineering. Contracts: PLANNING ENGINEERS, Preferably with a recognised qualification in civil or structural engineering. An all the control of expenditure on labour, plant and materials. The appointments are permanent, offering good conditions, interesting and varied work, and excellent opportunities for advancement. — Please send full details to Personnel Manager (CJK8804), Holland & Hannen and Cubitts (G.B.), Ltd., 1 Queen Anne's Gate, London, S.W.1.

Hannen and Cubitts (G.8.). Ltd., 1 Queen Anne's Gate, London, S.W.1.

PLANT WORKSHOP FOREMAN. — Experienced Workshop Foreman REQUIRED by national surfacing contractors to take charge of expanding central workshops in the London area. Applicants must have first-class practical ability and should preferably have knowledge of asphalt manufacturing an energial civil engineering equipment. —Write, giving full details of crevious experience, to the Chief Mechanical Engineer, Box V.2813. "The Contract Journal."

COST SURVEYOR REQUIRED on project in Liverpool area. Knowledge of costing in building and civil engineering essential. Permanent employment for suitable candidate. —Reply in first instance, with references, to the Personnel Manager, G. PERCY TRENTHAM, LTD. Pangbourne, Reading, Berkshire.

REPRESENTATIVE. — CLAY CROSS (IRON AND FOUNDRIES), LTD., REQUIRE TECHNICAL SALES REPRESENTATIVE for soun-iron pipes and castings, ast their London office. Good starting salary and prospects, Pension scheme, etc.—Write Clay Cross London, S.W.1.

A LEADING FIRM

Of London consultants has been engaged to assist in the appointment of a SENIOR AGENT for a large internationally known company of engineering contractors. Previous experience must include an outstanding commercial record in controlling large-scale contracts involving all engineering aspects. These contracts may be situated in any part of the world over the next here to ten years, and after that will office. Initial starting salary in the U.K., £3,000 per annum.—Write, giving fullest details, to:

Mr. K. Lloyd,
AUSTIN KNIGHT, LTD.,
Incorporated Practitioners in Advertising,
212A Shaftesbury Avenue, London, W.C.2.

WELL-ESTABLISHED. medium-sized building and contracting company REQUIRES an experienced BUILDER'S SURVEYER. The London and Home Counties north of Thames, successful applicant would, within a smoothly run organisation, be responsible for administrating contracts involving progress, sub-contractors, interimpayments and final accounts. The company is controlled by three working directors who act as contract supervisors, interesting and satisfactory position for man of ability and character. Salary \$1.250 per annum and ability and character. Salary \$1.250 per annum tributory pension scheme is available. Car provided and assistance given with housing accommodation. Write Box V.2807, "The Contract Journal."

GAMMON PAKISTAN. LTD., have vacancies for Three REINFORCED PRESTRESSED CONCRETE DESIGNERS in Karachi. Must be Pakistani nationals and should have a degree in civil or structural engineering, and have at least five years' experience in similar positions. — Apply in writing to J. C. Gammon (England), Ltd., 202 Sloane Street, London, S.W.1.

TECHNICAL ASSISTANT REQUIRED by precast concrete manufacturers. Experienced in detailing precast good opportunity of the materials, age, experience, and salary required to THE MODULAR CONCRETE CO., Staines Road, Bedfont, Middlesex.

SENIOR ENGINEER/SUB-AGENT REQUIRED for power station contract by major firm of civil engineering and building contractors. This is a permanent appointment, with prospects of rapid promotion to Agent, and has ample scope for further advancement thereafter for the right applicant. Write Box V.2671, "The Contract Journal."

APPOINTMENTS VACANT

A GENT REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract with excellent opportunities for advancement, good salary and conditions, and entry into superannuation scheme after 12 months' service. Write Box V.2820, "The Contract Journal."

Write Box V.2820, "The Contract Journal."

MANAGER REQUIRED for substantial company of sand and ballast merchants. Greater London area. Only copperienced men should apply, giving all details, including pass and present employers. Applications treated as stricest confidence which Box A.N.501, "The Contract Journal."

A 5315TANT ENGINEER REQUIRED by major civil engineering and building contractors operating on a national scale an nuclear, steam and hydroelectric projects. This permanent appointment is initially for a major civil engineering contract, with excellent opportunities for advancement. Good salary and conditions, and entry into superannuation scheme CONSTRUCTION CO., LTD., Wharf Works, Peterborough.

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REQUIRED by large speculative housing department. Transport provided for travelling to sites. Must be capable of carrying out accurate detailed surveys, setting out, levelling, and have good knowledge of drainage. Excellent prospects. Pension scheme and good salary offered.—Apply, in writing, stating age and salary required, to:

Chief Architectural Surveyor.
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, St. George's Circus, S.E.1.

YOUNG ENGINEER for setting-out, levelling and measuring on contract work. Portland Dockward and Weymouth area.—Apply A. E. FARR, LTD., Stone Road, Westbury, Wills., or Agent: Mr. R. D. lones, H.M. Dockyard, Portland, Dorset.

A SSISTANT COMPANY SECRETARY REQUIRED by well-established and progressive civil engineering contractors in London. Must have good commercial. secretarial and accountancy knowledge and experience. Age 30/40. Four-figure salary. To succeed present secretary on retirement. Non-contributory experience, and salary. Expected, its Box V.2812.

"The Contract Journal," expected, its Box V.2812.

OST CLERKS.—RICHARD COSTAIN. LTD., have cancies for Cost Clerks to work on civil construction of the cost clerks of work on civil candidates studying for I.C.W.A. qualifications.—Young anen, aged 20-30, who are seeking interesting posts with excellent prospects, and who are prepared to work on site are invited to apply to Assistant Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

WIMPEY

BUILDING GENERAL FOREMEN REQUIRED for large site organisation in London and the Home Counties. Applicants must be tradegmen and have had experience in controlling work in one or controlling work in the controlling work in

GEORGE WIMPEY AND CO., LTD., 27 Hammersmith Grove, London, W.6.

SITE SAFETY OFFICER REQUIRED on Padih
Applicants should currently hold a similar positi
Application to be made in writing, stating qualifi
tions, age, and salary required, to the Agent, M.
GLEEON (CONTRACTORS), LTD., Padiham "
Dower Station, Padiham, near Burnley, Lancs.

AGENTS REQUIRED to take charge of building and civil engineering contracts. Applicants should be experienced in precast and in-situ concrete construction.—Write, giving age, experience, and present salary, to the Contracts Manager, THE LONDON FERRO-CONCRETE CO., LTD., Maxted Close, Maylands Avenue, Hemel Hempstead, Herts.

GENERAL FOREMAN REQUIRED to take charge of building and civil engineering contracts. Applicants should be experienced in precast and in-situ concrete construction.—Write, giving age, experience, and present salary, to the Contracts Manager, THE LONDON FERRO-CONCRETE CO. LTD., Maxted Close, Maylands Avenue, Hemst Hempstead, Herts.

PRANCH MANAGER REQUIRED. Builders' mer-chant, Enfield. Contributory pension and profit-sharing scheme operating. — Apply in own hand-writing, with full details past experience, salary required, and when free.—Write Box V.2818, "The Contract Journal."

A LARGE CIVIL ENGINEERING AND PLANT HIRE CONCERN

In the North-West Midlands wishes to appoint a PLANT MANAGER. This is a permanent position which offers unlimited scope to a keen energetic property to work hard. A salary well appear to the salary well before any salary well before any salary well before any salary well before any salary well before the salary well before the salary well in first instance, giving full details of age, qualifications and previous experience, to:

BOX V.2798. "THE CONTRACT JOURNAL."

Salary not less than \$2,000 per annum: free accommodation; car provided a commodation; car provided a commodation;

write Box V.2819, "The Contract Journal."

CONSULTING ENGINEERS have vacancy for ENGINEER with working knowledge of soil mechanics practice and its application to all types of foundation design. Site experience of reinforced concrete construction desirable.—Write, stating age, qualifications, full details of experience, and names of past employers, to Box V.2814, "The Contract Journal."

APPOINTMENTS VACANT

R. BULLEN AND PARTNERS, Consulting Engineers, REQUIRE for their Glasgow and Darlington offices DETAILERS experienced in reinforced concrete or structural steelwork.—Applications, in writing, should be sent in the first instance to Dacre House, Dean Farrar Street, Westminster, London, S.W.1.

TIMEKEEPERS/WAGES CLERKS REQUIRED Immediately by leading firm of building and civil engineering contractors for work in the London area Permanent and pensionable positions, with good staff conditions.—Applications should give full details of TW3915. A Kert Advertising. 212a Shaftesbury Ave., A Seist-Aux

ASSISTANT ENGINEERS, single, and preferably qualified, REQUIRED for a 15-months four in Nigeria with an established civil engineering concern, Qualities expected are initiative, character and good health.—Written applications, in confidence, giving particulars of age, education and experience to date, to HARBOUR AND GENERAL WORKS, 173 St. Stephen's House, Victoria Embankment, Westminster, S.W.1.

ninster, S.W.1.

DiANT ENGINEER REQUIRED by London building and civil engineering contractors to assist Plant Manager. Mechanical engineering qualifications, with workshop experience, essential, and some knowledge of contractors' plant desirable.—Apply in writing stating age, training, qualifications, experience and some knowledge of contractors' plant desirable.—Apply in writing, stating age, training, qualifications, experience and 239 Yauxhail Bridge Road, S.W.1.

T. H. CONTRACTORS. LTD., REQUIRE a First-class South-Santon of Europe Stating and Permanency in a rapidly expanding organisation to the right man.—Write in first instance, giving full details, to T.H. Contractors, Ltd., 300 Chiswick High Road, London, W.4.

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THREE SCREWSMEN for Blaw Knox Paviours
PF.90 and PF.45. Experienced operators only,
who will receive too wages travellin maintenince
and subsistence allowance. Willing to travel to any
part of the country. Caravan provided.—Apply for
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ROAD CONSTRUCTIONS, LTD., 14/26 Henrietta
Street, Coventry, Tel.: Coventry 88473 or 89939.

CLERK (Male), age 18/25, for plant hire division of well-established civil engineering contractors. Must be live, progressive, energetic, able to type own correspondence and ready to act on own initiative. Accountancy experience an advantage. Excellent prospects, permanent position and pensionable.—Write age, experience, and salary required, to Secretary, FITZPATRICK AND SON (CONTRACTORS), LTD., 455 Old Ford Road, London, E.3.

455 Old Ford Road, London, E.3.

STRUCTURAL or CIVIL ENGINEERING DESIGNER REQUIRED for head office appointment. Experience in reinforced concrete design, foundations and industrial structures an advantage. Permanent position with good salary, bonus scheme, and entry into superannuation scheme after 12 months service. The service of th

SENIOR DRAUGHTSMAN, with sound experience of steel and timber formwork design, REQUIRED by major civil engineering and building contractors at their head office. Good salary, commensurate with experience and ability. Statistically superannually according to the control of the

borough.

KEEN ESTIMATOR/SURVEYOR REQUIRED for soortsgrounds and hard courts. Previous excerience in similar capacity essential. Able to take levels, prepare plans and estimate competitively, particularly on bulk excavation. Salary according to experience. Young Assistant keen to learn the business would be considered. — Apply, with full details of previous experience, age, etc., to GRASSPHALTE, LTD., High Street, Hampton Hill, Middlesex.

Street. Hampton Hill, Middlesex.

CLERK WANTED for head office of small firm of contractors engaged on roads, sewers and housing estate development. Must be familiar with wages, P.A.Y.E., invoices and general office work, and able to type. The knowledge of this industry an asset. Write first to PEIRCE CONTRACTORS (1960), LTD., Fareham Road, Bishop's Stortford, Herts.

BONUS CLERKS, experienced in measuring and calculating production for R.C. construction. REQUIRED for contracts in the north-east.—Write, olving details of experience, salary and availability to Ref. W.13. THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough.

For Advertisements received too late for classification see page 65

APPOINTMENTS WANTED

CIVIL CONTRACTOR, 36, single, good education, has recently sold his business (owing to accident), wishes to join a reputable company of earthmoving equipment, etc., as AREA REPRESENTATIVE. Wide experience of most types of contractors' plant, buying and sellings. Also good contacts in Midlands area. Write Box W.2782. "The Contract journal."

DIANT MANAGER, 20 years' experience at home and abroad with heavy earthmoving equipment and allied contractors' plant. REQUIRES EXECUTIVE POST. Technical administration covering plant ownership costing, spares provisioning, plant inspection for overhaul and purchase site maintenance and workshop control. Married, Public school education. Write Box W.2488, "The Contract Journal."

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Write Box W.2824. "The Contract Journal."

Write Box W.2024. The Contract Journal.

TWO energetic types, late twenties, well-connected London area, in contractors' tools and equipment, SEEK PROGRESSIVE POSITIONS with live-wire go-ahead concern that is keen to increase its turnover in this field. Present positions held are that of Area Representative and Sales Manager.

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Telephone: Slough 20361—Ext. 4.

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SITE CLEARANCE. Direct or sub-contract.
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188 Plumstead High Street, S.E.18. Woolwich 6318. UPROOTING.—TREES, STUMPS, HEDGES, etc. We have the most experience and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Telephone: Carnforth 381 and 382.

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S PECIALISED EXPLOSIVES SERVICES.
U.K. and OVERSEAS MOBILE UNITS coverage on ex-service strong points, sea walls and dangerous structures, etc.—124 Old Shoreham Road, Southwick, Sussex Tel. Southwick 3791 or Shoreham 4193

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W. SADLER, Clerk of the Council.

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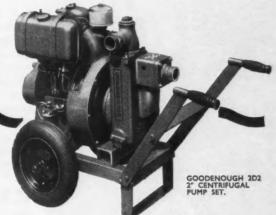
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number of firms who will be invited the work.

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The Council of the Undersigned not later than 9.30 a.m. on FRIDAY, 28th October, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. G. LICKFOLD,

R. G. LICKFOLD, Town Clerk.

Town Hall, Weston-super-Mare, 3rd October, 1960

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TENDERS are invited for the SUPPLY and LAYING of approx. 9,700 super. yd. of HOT ROLLED ASPHALT SURFACING for Dicconson Lane. Westhoughton (8.5239). Particulars for tendering from the Surveyor. Town Hall, Westhoughton. Surveyor. Town Hall, Westhoughton. CLERK OF THE COUNCIL, Town Hall, Westhoughton, Boiton, bearing the words "Tender for Dicconson Lane Surfacing," but not bearing any name or mark indicating sender, to be delivered not later than MONDAY, 24th October, 1960.

Lowest or any Tender may not necessarily be accepted.

MANGOTSFIELD URBAN DISTRICT
COUNCIL.
SODBURY RURAL DISTRICT COUNCIL.
THORNBURY RURAL DISTRICT COUNCIL.

FROME VALLEY SEWER.

FROME VALLEY SEWER.

Contractors who wish to submit a TENDER for the ABOVE WORK should submit their names to the Clerk of the Sodbury Rural District Council, Council Offices, Chipping Sodbury, Bristol, not later than MONDAY, 31st October, 1960, together with details of similar work carried out and the name of the endine work carried out and the name of the councils ble, to whom reference may be made. The councils ble, to whom reference may be made to the councils ble, to whom reference may be made to submit Tenders. It is anticlosted that Tenders will be received early in january, 1961, and that work will commence early in the year. The work consists of the construction uf a sewer Brook Sewage Works, a total distance of about 6 miles.

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The Corporation drives not bind itself to accept the lowest or any Tender.

BOROUGH OF HYDE.

TENDERS are invited from contractors experienced in the development of municipal housing for the tendency of the contractors and contract lighting. Plans and Conditions of Tender can be obtained from the Borough Surveyor, Municipal Buildings, Greenfield Street, Hyde, Cheshire.

Tenders are to be returned by First Post on MONDAY, 21st November, 1960.

JOHN BINNS, Town Clerk.

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ASHBOURNE RURAL COUNCIL. DISTRICT

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The above-named Council invite TENDERS from responsible contractors for the CONSTRUCTION of a MASS CONCRETE RESERVOIR, capacity 240,000 gallons, and appurtenant works, at MADGE HILL in the Parish of Atlow.

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The Council do not bind themselves to accept the lowest or any Tender.

F. H. THOMAS.

F. H. THOMAS, Clerk of the Council. Compton Offices,
Ashbourne,
Derbyshie,
3rd October, 1960.

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JOHN F. GUILE, Town Clerk.

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Bow, E.3.

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THE CONTRACT JOURNAL

THE BRITISH CONSTRUCTIONAL ENGINEER
and
THE CONTRACTOR
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Advertisements

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TIMELY CONVENTION

THE convention on the problem of car parking being held in London today by the Institution of Municipal Engineers is indeed timely for there is no disputing the fact that in town centres, at any rate, the parked vehicle invariably creates congestion and is a contributory factor in accidents. But as the Minister of Transport himself has said the motor car is here to stay and the situation calls for clear thinking and sensible measures which will enable the traffic to keep flowing while at the same time providing the parking facilities which are essential to the economic life of the central areas.

Unfortunately, muddled thinking abounds, restrictive measures seemingly being authority's only answer to the problem, with the result that there is increasing friction between the police and the car user, now aggravated by the advent of traffic wardens. Further, some of the restrictions border on the ridiculous. One such example can be found in the Mayfair district of London where during the hours when parking meters are in operation (all day) goods vehicles are allowed to load and unload only in parking bays and motor cars not at all. One is presumably allowed to deliver a millinery box from a 10-ton lorry but not from a private car. One would have thought that if such restrictions were really necessary they could have been limited to the rush hours. Is it that we are so far behind other countries in the science of traffic engineering?

Today, municipal engineers will have the opportunity of pointing the way to the solution of this difficult parking problem—it is to be hoped that they will have some constructive suggestions which will not fall on stony ground.

The Severn Bridge

AT last a start is to be made on the building of the Severn Suspension Bridge. After years of anticipation, tenders are now being invited for contract No. 1 which, as announced last week, involves the construction of the substructure of the bridge and of access roads to the site. Erection of the superstructure and the building of the Wye Bridge and eastern and western approaches will be carried out by further contracts, timed to enable the whole scheme to "proceed smoothly to its planned completion within five to six years."

The Government's decision to proceed with this £16m. project is to be welcomed, to say the least. From the engineer's point of view, of course, it means building a great structure—the Severn Bridge will be the fifth largest in the world (with the exception of the new Forth Bridge, the other larger structures are all in the U.S.A.—the Golden Gate at San Francisco, the George Washington in New York and the new Mackinac Bridge at Michigan).

However, the main purpose of the Severn project is to improve road communications with South Wales. For instance, much of the traffic from Bristol and Somerset going to towns on the South Wales Coast now takes the route via Gloucester. The new bridge will cut 50 miles from this journey as well as helping to relieve traffic congestion in towns on the longer route.

When it is completed in 1965-66, the Severn Bridge will therefore make a major contribution to the improvement of communications in that area. But it is also important to remember the needs of other parts of the country where many smaller schemes are still awaiting approval. Until these are completed the country will never have its modern highway system.

HUNTERSTON NUCLEAR POWER STATION UNDER CONSTRUCTION

Civil Work Substantially Complete

THE major portion of the civil engineering work has been completed on the two reactor structures and the turbine hall of the £40m. Hunterston nuclear power station now being constructed in Ayrshire for the South of

Scotland Electricity Board.

Externally, there is little to choose between the appearance of the two reactor structures which tower some 180ft, above the site. The height of the second structure has, until now, been limited by the necessity to lift parts of the first reactor

necessity to lift parts of the first reactor across it.

The last section of the concrete biological shield of the first reactor having been lifted into position, a start has been made on the erection of the structure to house the service machine. This machine is being assembled for testing at the Erith works of the main contractors, The General Electric Co., Ltd., who are building the station in association with Simon-Carves, Ltd., Motherwell Bridge and Engineering Co., Ltd., and Mowlem (Scotland), Ltd.

Emphasis on Mechanical Engineering

The emphasis on construction has moved The emphasis on construction has moved away from civil engineering to mechanical engineering, with the fabrication and installation of the pressure vessels, steamraising units, mechanical and electrical plant. It is hoped that the labour problems associated with the assembly of the pressure vessels and steam-raising units have now been resolved.

have now been resolved.

Since work restarted in January of this since work restarted in January of this year, production has been maintained at a satisfactory level. Inside the first reactor structure, for instance, the assembly of the 3in, thick 70ft. diameter pressure vessel is complete, all courses having been placed and welded together, with the core support grid and inner heat shield located inside the vessel. The vessel is now being prepared for stress-relief.

The supporting skirt of the second

reactor pressure vessel has been fabricated in situ inside the biological shield and the combined bottom head and support course No. 2 course have been position.

Elsewhere on the site fabrication and assembly of the steam-raising units has been going ahead; several of the 210-ton been going ahead; several of the 210-ton vessels having been stress-relieved and hydraulically tested are now in the final stages of construction, which includes nuclear clean conditioning. The first steam-raising unit associated with the first reactor was accepted and lifted by the Goliath crane onto its plinth on September 15 and preparations for tubing and gas circulator installation are already under way. Sections of the clean-conditioned gas ducting linking the reactor pressure vessel with the steam-raising units have arrived on site.

on site.
Externally, the 680ft. long turbine hall appears complete, although internally much work is in progress. Three of the six condensers are installed, while the foundations for the turbo-generators are ready, awaiting the arrival of the sets themselves.

awaiting the arrival of the sets themselves. Farther down the Ayrshire coast, to the south of the main part of the site, is the circulating water pumphouse. This building is finished and much of the equipment, including pumps, motors, bandscreens, valves, filters, etc., is installed. The associated culverts and tunnels on the intake side of the circulating water system have been completed. On the outfall side, some 600yd, farther up the coast, the tunnels have been driven and are now being lined and the siphon seal is almost finished, bringing the end of civil work in this area in sight.

in sight.

On the north and south sides of the

now-completed concrete biological shield the adjoining "reactor building" and "exit building" are being constructed. The steel frames for both buildings were finished some time ago, and much progress has been made with the intermediate floors, brickwork, stairs and lift shafts. On the other two faces of the biological shield the eight concrete plinths and their connecting floors are ready for the steamraising units, one of which is already in position. All the seal oil pumps, tanks and coolers have been installed at the various levels in the reactor structure.

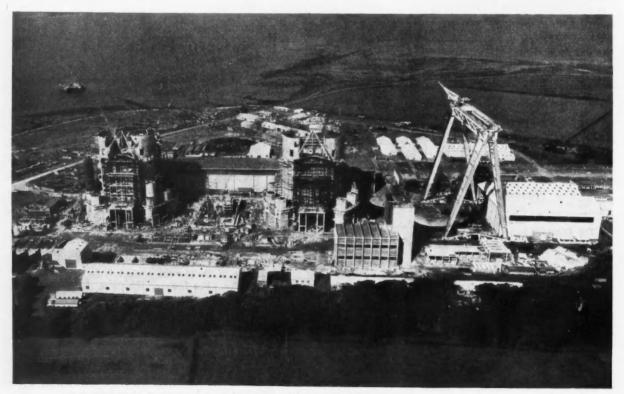
Much of the concrete structure upon which the tracks of the service machine will be mounted has been built. The 450-ton machine will be situated at the 178ft. 6in. level, above the biological-shield roof of the reactor, and will have longitudinal and cross-traverse facilities.

Rehearsal Shaft

A rehearsal shaft for the charge-machine is included in the reactor structure and the civil engineering for this is finished. It will be able to test every function of the charge machine and is expected to be the charge machine and is expected to be used daily when the station is in operation. Other completed work associated with the charge machine includes the installation of the turntable tracks, roller path, cooling and shielding water tanks, and the fitting of the massive exit shielding deer.

and the fitting of the massive exit snielding door.

With the circumferential welding between the various courses of the reactor pressure vessel being either finished or in an advanced state of completion, and the welding in and non-destructive testing of the charge nozzles and control rod nozzles also progressing well, the time for stress-relief of the whole structure is approaching. Electrical resistance heating will be employed for this operation, which



An aerial view of Hunterston power station

60

ield exit

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will then be followed by final installation work and a pneumatic pressure test. This test consists of subjecting the sphere to an internal pressure of 253lb./sq. in and checking for leaks. Air will be used for this test. All this work will be completed and graphite laying will begin in the summer of 1961.

The top inner surface of the pressure vessel is to be cooled by diverting some of the incoming CO, coolant gas through a system of pipes suspended between the inner heat shield and the pressure vessel dome. These pipes which are perforated on the upper surfaces to permit the escape of the coolant gas, are in the process of being erected.

of the coolant gas, are in the process of being erected.

Closing in of the reactor structure with precast concrete units which form the soffit of the roof biological shield has begun. Six inverted double-webbed Tbeams are being used for this purpose, and they span the aperture, being supported at each end on a 308-ton member. Some of these T-beams are being left out temporarily to facilitate access to the reactor, but infilling of the remaining members has already commenced.

Clean conditioning of the gas ducting, blowers and other plant directly in contact with the circulating cooling gas is necessary if reactor performance is not to suffer. Some of this cleaning is carried out on site, but the majority is performed

necessary if reactor performance is not to suffer. Some of this cleaning is carried out on site, but the majority is performed in the manufacturers' works. Sections of the clean conditioned ducting, parts of the first gas circulator and the main gas valves for reactor A are beginning to arrive on site and are being erected. Temporary structures are also being built in the vicinity of the reactor for the installation of the gas circulators and boiler tubing under nuclear clean conditions.

During the past few months the first gas circulator drive has been undergoing a test of continuous running under load conditions and under simulated conditions of misalignment, and this has been satisfactorily concluded. More recently a shock load test has also been successfully carried out. Each gas circulator will be situated in the base of a steam-raising unit so that it will handle gas at the lowest temperature. The circulator will be mounted vertically with the impeller and diffuser inside the shell and the drive outside. This simplifies the gas sealing arrangements. arrangements.

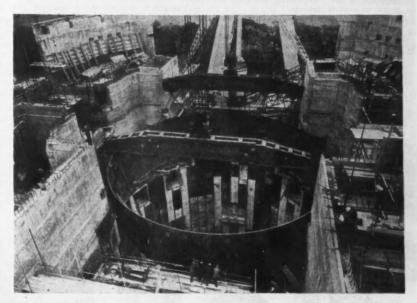
Reactor B

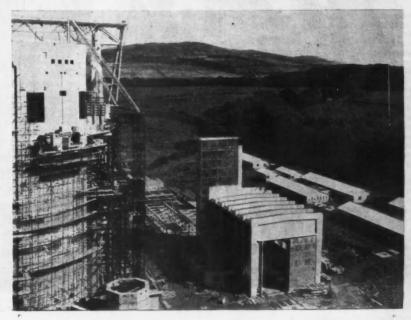
Reactor B

As indicated earlier the concreting of the 9ft, thick biological shield has reached an advanced state of completion. This has permitted work to proceed on the fitting of the platework on the outer skirt walls and on the inner face of the walls of the biological shield. This platework incorporates full features for expansion and is spaced 2 in. away from the walls to form a region through which air is circulated to control the temperature of the biological shield.

Work on the pressure vessel associated with this reactor is being carried out under cover on the special prefabrication area adjacent to the structure. The outer skirt has been fabricated in situ in the reactor vault, while the combined bottom head and support course was fabricated

reactor vault, while the combined bottom head and support course was fabricated outside and lifted into position. Slotted gussets welded on the outside of the support course are used to locate it on the outer skirt. The gussets which fit on the inside of the bottom head to carry the core support grid have already been welded into position. More recently the second course has also been placed into position. The other courses of the pressure vessel are all in various stages of manufacture. A start has also been made on fabricating the core support grid, and the inner heat shield. Profiting from





(Top): First steam-raising unit for reactor A being lifted for placing on its plinth

(Centre): Looking down inside reactor B, showing course No. 2 being placed in position

(Bottom): Charge machine maintenance build-ing with clean conditions tower at the rear

reactor A experience, work is over two months ahead of schedule.

months ahead of schedule.

Although it is not possible to erect the biological shield roof, the two 308-ton members and the six double-webbed Tbeams which form the soffit have already been cast and are stacked on the nearby plinths of the steam-raising units.

Steam-raising Units

The first steam-raising unit shell has been internally cleaned and is in position on its plinth, ready for the erection of the main gas ducts and installation of the internal tube banks. The shells of the other 15 steam-raising units, for both reactors, are in the process of assembly. Three of these have been stress-relieved and tested hydrostatically, and two are now being clean conditioned. Two more have been prepared for stress-relief. Further top and bottom head assemblies of the steam-raising units are being fabricated at steam-raising units are being fabricated at the works of the manufacturer and several have been delivered to site.

Circulating Water Works

The construction of this part of the project is probably the most advanced on the station. The intake headwork and jetty are practically complete and the lining of the twin intake tunnels and land shafts is finished: this is also true of the main

is finished: this is also true of the main structure of the pumphouse, including the outer stonework facings.

The penstocks and all eight bandscreens inside the pumphouse have now been erected, together with four of the six main circulating-water pumps and three of their pentages and associated pinework.

circulating-water pumps and three of their 800-h.p. motors, and associated pipework and valves. The access galleries in the pumphouse will be finally completed after the installation of the remaining pumps. To prevent fouling of the various culverts and pipework by marine organisms, the circulating-water system is provided with equipment which delivers chlorine solution to the intake headworks. The automatic dosing gear and pumps for this system have been installed in a room in the main pumphouse. The drums of chlorine will be kept in a separate storage room, adjacent to the pumphouse loading bay, which is fitted with special ventilating equipment to ensure the safety of equipment safety to ensure the

The majority of the civil engineering work associated with the circulating-water culverts, linking the pumphouse with turbine hall and the turbine hall to the on-shore culverts on the outfall side, has been carried out. Work on the siphon seal, outfall shafts and on-shore outfall culverts is proceeding while the juctions between the on-shore culverts and the offshore 10ft,-diameter tunnels are practically complete. The construction of the outfall headworks, some 460yd, off-shore, is well up to schedule.

Turbine Hall

Externally, the turbine hall, with transformers in their stone-filled bays on the north side, presents a finished appearance. The civil engineering on the interior of the turbine hall is substantially complete. The six turbo-generator foundation blocks are in position and delivery of the plete. The six turbo-generator foundation blocks are in position and delivery of the first two sets are scheduled for October, Two 440-kW alternator exciters are being stored in the building. Reinforced-concrete blast walls have

stored in the building.

Reinforced-concrete blast walls have been constructed to prevent accidental damage to the cabling which will eventually be run over the "pipe bridge" linking each reactor to the turbine hall. The tank floor is completed on the south side of the building and all the tanks have been erected and are now being lined internally with protective coatings. internally with protective coatings.

The first main condenser is installed, and the second and third are in an advanced stage of erection. Good progress is reported on the erection of the first set reported on the erection of the first set of feed-heating plant and extraction pumps. The access platforms around the first turbo-generator block are practically finished and work on those around the second set is under way.

The hydrogen water/water coolers on the north side of the first turbo-generator blocks have no the properties of the properties of the first turbo-generator the plants have no the properties of the first turbo-generator th

blocks have now been assembled in posi-tion and the copperwork between the first

two blocks erected as far as possible.

The 42in, inlet and outlet valves in the circulating-water system on the north side of the basement have been fitted and the pipework to Nos. I and 2 turbo-generator sets is nearly finished. The racks over the c.w. culverts are ready for receiving the cables, having been extended under the operating floor of the turbine hall. Under the control room the Mulsifyre-system diesel pumps are installed, together with the refrigerating plant, ductwork, and fans for the central control room air

with the refrigerating plant, ductwork, and fans for the central control room air conditioning system.

The first of three 1,000-kW emergency diesel generators is to be erected in the basement of the turbine hall. These sets will be used to supply the essential power station auxiliaries in the event of a failure of the incoming supply to the station.

The H.P. and L.P. steam receivers have been placed in position and fitted with their valves; in addition, the pipe supports for the steam and feed ranges have been grouted in under the operating floor, and over half of the pipework for the first part of the contract has already been erected, the remainder being available on site.

Near the centre of the south annexe, both dump condensers with their desuperheaters will be located, and much of the supporting steelwork is finished. The lift communicating between all floors of the building is ready for testing.

the building is ready for testing.

The floors of the switch and battery rooms on the north side of the turbine hall have been completed, and most of the switchgear for the first half of the contract is already in the building.

Ancillary Buildings

The workshop to the east of the turbine hall is nearly complete so far as cladding is concerned, and the crane is already installed. A "clean conditions workshop" has been constructed inside this building which is being used for the final order. which is being used for the final cleaning of the steam-raising units. The administration building sited to the

The administration building sited to the east of the turbine hall has now been occupied by the staff of the South of Scotland Electricity Board, and the adjoining welfare building is ready for occupation. The nearby uranium and graphite store is very nearly complete.

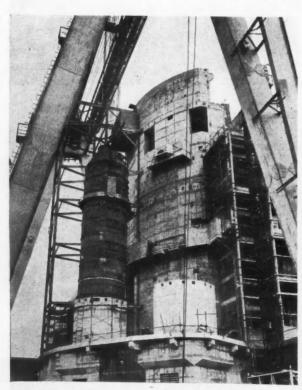
The charge-machine maintenance building to the court of reactor B is linked.

ing, to the south of reactor B, is linked to both reactor structures by means of rail tracks. These serve to bring the charge machines, which are at ground level, into

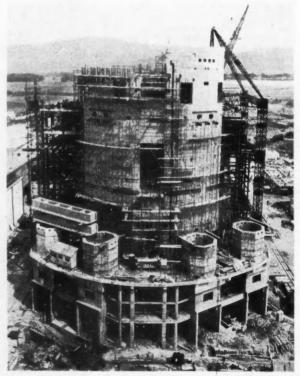
the building for servicing.

The building is practically finished, an interesting feature being the inclusion of clean-conditions tower, a necessary

(Concluded on page 82)



Close-up view of first steam-raising unit for reactor A



View of the plinths of reactor B steam-raising unit

THAMES-LEE VALLEY DEEP TUNNEL MAIN IS 19 MILES LONG

BELIEVED to be the longest artificial tunnel in the world, the 19-mile Thames-Lee Valley water main, which will carry raw water from Hampton, Middlesex, to Lockwood, Walthamstow, was inaugurated last week for the

was inaugurated last week for the Metropolitan Water Board.

For nearly a century the maintenance of water supply to east London, which area is chiefly dependent upon the River Lee, has given rise to difficulty in periods of drought. In recent years the demand for water in this eastern area has considerably increased, and it is likely that the Board will be required in the not too distant future to provide substantial quantities in bulk to the South Essex Waterworks Company. Company.

The Need for the Main

The Need for the Main

To make good any deficiency in the Lee supply it has been the practice to rely upon a standby reserve of plant in the Thames Valley and to pump large quantities of filtered Thames water across London. This arrangement is uneconomical inasmuch as during years of average or excessive rainfall certain plant in the Thames Valley remains idle for long periods while in years of drought that in the Lee Valley is only partly loaded. Moreover, at times of high demand, a large proportion of the capacity of the Thames works is necessarily absorbed in meeting the increasing demands for water elsewhere and is therefore not available for east London at the time when it is most needed.

In order to remedy this situation the Board in 1948 decided to lay a large main from Hampton works to King George's reservoir at Chingford so that raw Thames water could be pumped across to the Lee Valley. The choice of the most suitable route for such a main presented a problem. To lay it in open trench through the many miles of streets in the built-up area would obviously present great difficulties, and a

To lay it in open trench through the many miles of streets in the built-up area would obviously present great difficulties, and a semi-circular route round the north of London would not be a satisfactory alternative. Consideration was therefore given to the construction of the main in deep tunnel through the London clay. This clay extends over the more central part of the London Basin and reaches a maximum depth of 500ft. in places. It is usually overlain by an appreciable depth of sand and gravel, and for all practical purposes it is watertight, a property which has been taken advantage of by the Board in constructing all their large storage reservoirs.

has been taken advantage of by the Board in constructing all their large storage reservoirs.

The use of tunnels for the conveyance of the public water supply in London had not hitherto been much favoured. They were generally considered to be more expensive than surface pipes, and it is necessary to make them of a certain minimum diameter which is large compared with most surface conduits. It was also usually more convenient for reasons of distribution to have a large number of smaller conduits than a few large ones. The geological conditions, too, were sometimes considered as not specially suitable for hydraulic pressure tunnels.

During the last war plans were conceived by the Board's engineering staff involving the use of tunnels in the future. At that time they had no practical experience of this type of main and in order to ascertain if such a proposal were feasible Sir William Halcrow and Partners, consulting engineers, were asked to study the problem and put forward a suitable design. It was decided to Jay an experimental length of about 1,000ft, at the Stoke Newington works in order to ascertain what difficulties were likely to be encountered and to

works in order to ascertain what difficulties were likely to be encountered and to provide information as to the actual costs.

The task which presented itself was to devise a method of laying and jointing a

large diameter pipe inside a tunnel of only slightly larger diameter and subsequently filling the space between the main and the tunnel.

Trial borings were sunk at close inter-

vals along the proposed route to determine the level at which the main must run, and hence the pressure under which it would operate. Because of the need to reduce to a minimum the periodical emptying of such a main for cleaning and other purposes it was decided to protect the steel pipes from corrosion by a spun concrete listing.

pipes from corrosion of a lining.

The driving of the tunnel itself presented little trouble for the London clay is an admirable medium for this purpose. The main problem was the lining, and for this it was decided to adapt and develop the Don-Seg system. This consists of forming a ring with identical precast unreinforced concrete wedge-shaped segments to the

Great care and ingenuity were displayed throughout this experimental work. For instance, at an early stage it was found that the completed rings proved to be a fraction of an inch too tight for the excavation. This possibility had been foreseen by the contractors who thereupon cast the remaining rings to a diameter only Tolein. less than the diameter of the excavation, instead of Tolein. more as in the first few rings, and all these closed without trouble. The output averaged 40 rings (70ft.) a week, and the finished tunnel presented a smooth internal surface with little variation in the nominal diameter of 90in.

For the main in the experimental tunnel

from in the nominal diameter of 90in.

For the main in the experimental tunnel concrete lined welded steel pipes were used, the transportation and laying of which also called for special arrangements. Each pipe, 75in. internal diameter and 14ft. 6in. long, weighed 4½ tons, and specially designed gear was used for lower-



General view of tunnel, showing skips for conveying excavated material

exact diameter of a clean circular excavation cut by a special shield. Advantages of this system are—economy, since no reinforcements or bolts are required for the lining; the elimination of pressure grouting between lining and clay; speed of erection; and low costs. The internal diameter of the Don-Seg lining of the tunnel for the experimental length was 90in, and the length of each ring was 21in. The thickness of the lining was 5½ in. While the preliminary site work was in progress, the contractors cast the first of the segments at their precast concrete works, a complete ring consisting of 10 segments, involving 30,170 segments per mile. As about 19 miles of tunnel would ultimately be constructed, the production of more than 573,000 segments had to be envisaged, each of which weighed 3cwt. A special tunnel shield required for the Don-Segs was designed by Kinnear, Moodie and Co., Ltd., the contractors for the experimental length, and was built by Arthur Foster (East Ham). Ltd. After sinking a cast-iron lined shaft to a depth of 110ft., a 40ft. length of tunnel was first driven and lined with standard precast reinforced concrete bolted segments

driven and lined with standard precast reinforced concrete bolted segments grouted under pressure. Thereafter driving continued, using the Don-Segs for lining.

ing the pipes to the bottom of the shaft and for drawing them along the tunnel to the required positions. Since the economy of the design depended so largely upon achieving the smallest possible clearance between the pipe and the tunnel, a great deal of thought was given to the design of the travelling gear. The pipes were subsequently joined together by welding. Good results were obtained and the main difficulty encountered was the fog created by the welding. Compressed air blown in did not remedy this, probably due to the fact that this length of tunnel had only one shaft and a closed end, affording no natural ventilation, and resort was therefore had to extraction by fan duct.

duct.

Filling of the annular space between the steel pipes and the concrete lining of the tunnel was essential to ensure that the steel pipe should not rust and to form a solid continuous structure of the concrete segments, the filling and the steel pipe, which would withstand both external and internal pressures, and have no tendency toward movement. For these reasons the more economical filling of blown sand was rejected in favour of concrete or grout.

The laying of this experimental length was commenced in April, 1950, and was

completed by August, 1951. It demonstrated that the construction of a main in tunnel was a practical proposition and that it could be built safely, rapidly and economically. At that time it was assumed that the Thames to Lee Valley tunnel would be lined with steel pipes.

would be lined with steel pipes.

Later in the same year a similar tunnel was constructed for a short distance between the Queen Mary Reservoir and Ashford Common. This was also lined with Don-Segs, but no steel pipe lining was used, investigations made before, during and after construction confirming that the weight and strength of the clay surrounding the concrete segments would withstand the pressure of the water.

£1m. Saving in Steel

In the light of the experience gained at Stoke Newington and more particularly at Ashford Common, the design of the main was reviewed. It was decided to increase the nominal internal diameter to

A number of shafts varying in depth between approximately 67½ft. and 192ft. have been sunk along the route of the main for construction and maintenance purposes. The terminal shaft at Lockwood is 67½ft. deep and has a diameter of 25ft., that is, 13ft. greater than that of the others, in order to accommodate the pumps. Electric motors, meters, main switches and fuses are conveniently arranged above ground. The water is carried through each of the intermediate shafts in a large diameter steel pipe, fitted with covered access branches. Stairways and landings are provided in the shafts and the normal cover consists of a reinforced concrete slab provided with separate access manholes for personnel and equipment.

The depth of cover over the main is in general more than 100ft, but owing to the reduced thickness of the London clay in the Lee Valley, only about 50ft, or 60ft. of cover is present east of Stoke Newing-

the main and discharge it into this reservoir when required.

The main is designed to carry 120,000,000 gallons of water per day but at first it is not expected to be used at a greater rate than 70 m.g.d.

Construction Method

shafts, conveniently situated at intervals of between three-quarters to one mile along the route of the main, were constructed by hand mining the material from the area enclosed by the shaft and underpinning with rings formed of either reinforced concrete or cast-iron segments bolted together. The internal diameter of each shaft, except the one at Lockwood, is 12ft, widening out to 15ft, at the junction with the tunnel.

For driving the tunnel the special form of shield, developed in connection with the of shield, developed in connection with the experimental section, was used which pushed the segments of the ring home and tightened them into position against the clay, severe space restrictions leading to major departures from previous design. The device is essentially a very strong circular steel cylinder whose outside diameter is that of the external diameter of the tunnel lining segments. The primary function of the shield is to cut a circular hole of an exact diameter in the clay; its secondary function, as its name implies. secondary function, as its name implies, is to shield the workmen engaged in driving the tunnel.

The shield was pushed forward by 12 The shield was pushed forward by 12 hydraulic rams, one to each segment in the lining ring, aligned so that their heads moved parallel to the axis of the shield when under pressure and positioned so as to distribute their thrust uniformly across the radial width of the lining. The forward or leading edge of the shield was provided with a cutting edge having a bead projecting beyond the surface of the shield to make allowance for the expansion of the clay when its face was exposed prior to the erection of the lining.

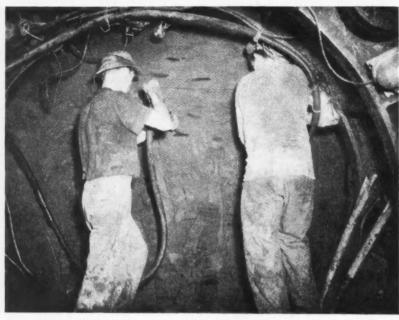
Types of Lining

Two types of concrete segment linings were used for the 102in, internal diameter tunnel, the Don-Seg and Wedge Block. In the former there were 12 segments all of which were wedge-shaped and interchangeable. They were placed alternately broad face followed by narrow face forward and thus each second segment acted as a key which, when forced home by the appropriate ram, expanded the ring against the key which, when forced home by the appropriate ram, expanded the ring against the clay. In the Wedge Block type each ring consists of one key segment where the longitudinal faces are tapered to form a wedge, two wide segments with one longitudinal face tapered to match the key, and nine parallel-sided segments. Thus in this type of lining there is only one key. and nine parallel-sided segments. Thus in this type of lining there is only one key segment which when forced home by a ram tightens the ring against the clay. No reinforcement was used in either of these types of lining and no bolts were required to hold them in position in the ring. Bolted type segments were used for the relatively short lengths where ground unsuitable for the use of unbolted types was encountered.

Excavation of the clay was carried out by miners, using pneumatic spades, to a diameter several inches less than that of the shield and for a distance equal to the length of a ring ahead of the cutting edge of the shield, leaving a rim of clay a few inches wide to be cut off during the forward shove of the shield. The excavated clay was loaded into skips, When loaded the skips were hauled by an electric battery-operated locomotive along the already completed tunnel to the working shaft up which they were lifted by a crane and the clay was tipped into a muck hopper above ground, the hopper being suitably raised to enable easy loading of the lorries for transporting the clay to a tip.

When the excavation of the clay for a Excavation of the clay was carried out

When the excavation of the clay for a distance equal to the length of a ring (generally 24in.) had been completed, the rams of the shield, which had during this stage been bearing on the edge of the last



Clay excavation at the working face

102in, and to construct it at such a depth that the water from the Thames would flow by gravity to a terminal shaft near Lock-wood reservoir whence it would be pumped to the several storage reservoirs in the Lee Valley. This resulted in a very con-Lee Valley. This resulted in a very considerable reduction in pumping costs, and the lowering of the water pressure in the tunnel which was effected enabled the steel pipes to be dispensed with, giving a saving of some 20,000 tons of steel, and about £1m. in cost.

Route of Main

Route of Main

With a total length of 33,239yd., the main follows an almost direct route from an intake at Hampton to the Lockwood shaft, Walthamstow, passing beneath Bushy Park, the river Thames near Teddington Lock, Ham Common, Richmond Park, Barnes Common and the Barn Elms reservoirs. Crossing the Thames again below Hammersmith Bridge it passes close by Olympia, beneath Paddington Station and Lords Cricket Ground to Barrow Hill works, whence its course lies under Holloway Priston, Stoke Newington works and Stamford Hill to Lockwood reservoir. From this point two 54in. diameter mains, laid in trench, convey water northwards, one into the High Maynard reservoir and the other terminating at the Chingford South pumping station, whence the water will be pumped into either the William Girling or the King George's reservoirs. Branches from this main connect into the Lockwood and Banmain connect in George's reservoirs. Branches from this main connect into the Lockwood and Banbury reservoirs.

ton. A telephone cable will be laid along the tunnel for control purposes.

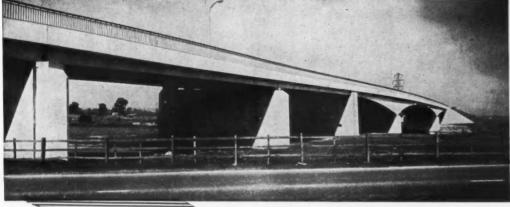
Instead of the usual form of inlet with large penstocks or gates, large areas of moving parts and high cost of maintenance at the Hampton works, the water from the Thames passes to the main through siphons (three were found convenient), formed of concrete and capable of being started and stopped at will. The only moving parts consist of hand-operated valves of the type used in distribution mains, none having a diameter of more than 6in. mains, no

At the terminal shaft at Lockwood six pumps of the vertical spindle borehole type with weatherproof motors, each having a capacity of 25 m.g.d., have been installed. three working against a head of 44ft, for supplying water to the High Maynard reservoir and the remaining three working against a head of 88ft, for supplying water to the Chingford South pumping station or to Lockwood and Banbury reservoirs. These units will be driven by purchased current transformed down from 11,000-V to 3,300-V. The plant is remotely controlled from the Ferry Lane works and is the first "outdoor" pumping station to be constructed by the Board.

In addition to the pumps in the terminal At the terminal shaft at Lockwood six

In addition to the pumps in the terminal shaft at Lockwood a vertical spindle borehole type pump with weatherproof motor, having a capacity of 12.5 m.g.d., has been installed at shaft No. 18, which is adjacent to the West reservoir at Stoke Newington works. This pump will lift water from

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CUT IN BUILDING ACCIDENTS "AN URGENT NEED"

CRITICISM OF LACK OF PRECAUTIONS

That an "urgent and immediate need "exists for an improvement in the accident record of the building and civil accident record of the building and civil engineering industries is the main conclusion in a Ministry of Labour report on safety and health in the industries, published yesterday.

on safety and health in the industries, published yesterday.

In an introduction to the report, Mr. McCullough, Chief Inspector of Factories, writes: "There are still far too many accidents on construction work and many accidents on construction work and employers and operatives alike must continue to use every endeavour if real protinue for making the industries are stored and protection of the setting up of a number of has been the setting up of a number of has been the setting up of a number of the report itself noted that the number of the report itself noted that the number of accidents at building operations had risen to 13,903 in 1954, of which 172 were from 13,903 in 1954, of which 207 fataltites, from 13,903 in 1954, with 207 fataltites, Similarly, the figures at works of engineer, Similarly, the figures at works of engineer, Similarly, the figures at works of engineer, Similarly, 1954, and had risen to a peak were fatal, in 1954, and had risen to a peak of 2,329 and 51 respectively in 1958

MANY FALLS

Falls from working places provided the highest number of deaths at building operations. These were usually due either to a lack of guard rails and toe boards, or to lack of guard rails and toe boards, or to lack of guard rails on inadequate width working platforms of an inadequate with the Falls from sloping roofs were due in the Falls from sloping roofs were due in the rect anchoring, failure to use a proper working platform, and a shortage of proworking platform, and a shortage of evel. It is not the flat, although not often result-falls on the flat of the flat of

sives were used was sometimes "extremely slack."

Standards of welfare varied greatly from site to site and from employer to employer. Site to site and from employer to employer. The report noted that many building sites. The report noted that many building sites. The report noted that many building sites the were poorly equipped with first-aid contravention of existing regulations. Messroom standards did contravention of standards and some more than more than the were most nothing more than more than more rudimentary shelters. "A number of contradimentary shelters." A number of contradimentary shelters as kitchens and canteens hefore permanent site buildings had been before permanent site buildings had been ing and Civil Engineering Industries 1954-ing and Civil Engineering Industries 1954.

need which

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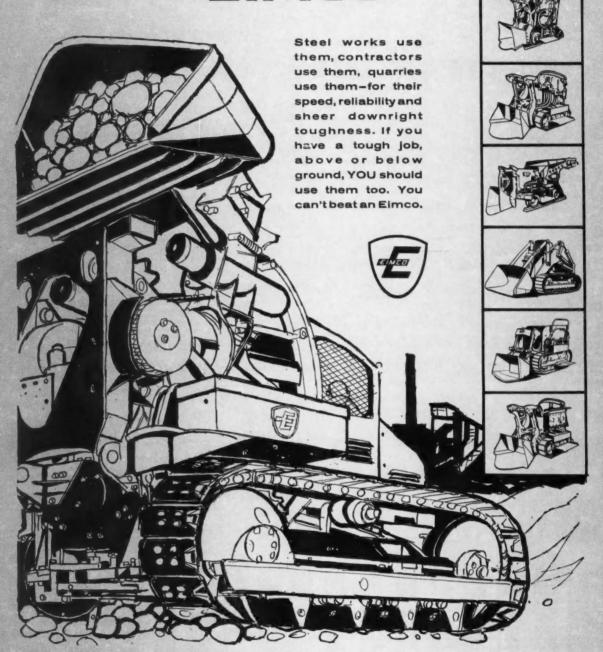
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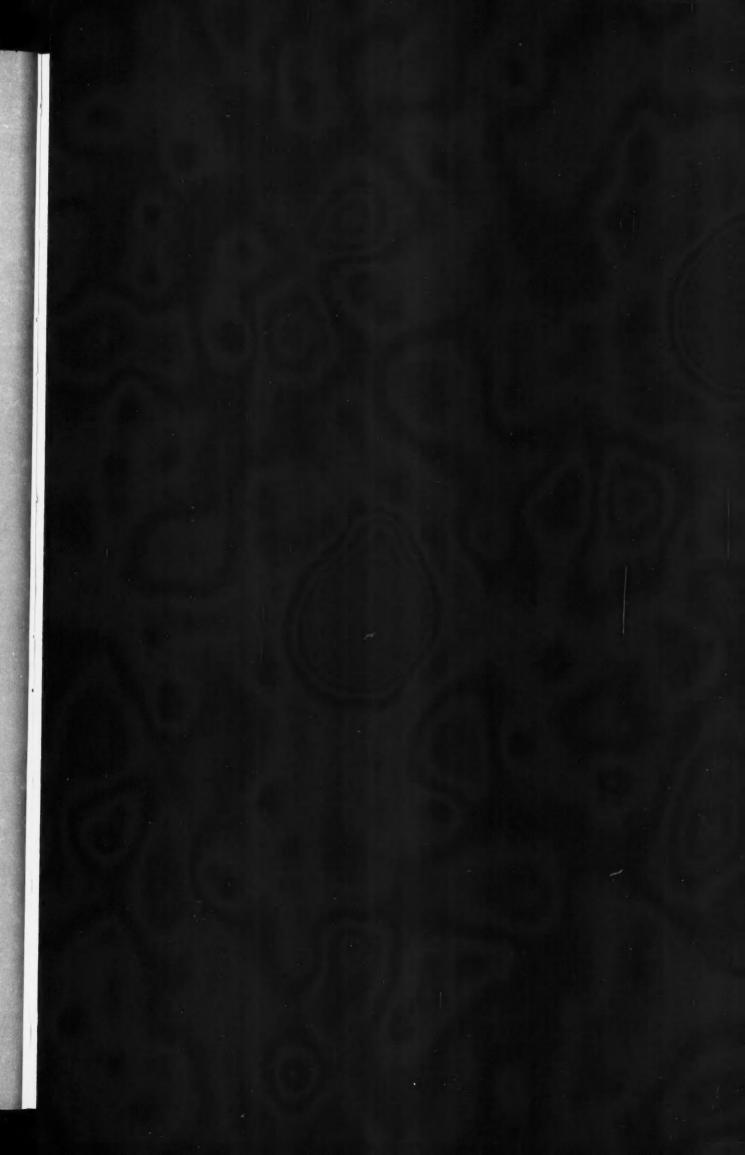
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completed ring and in the retracted position, were operated by hydraulic pressure and the shield pushed forward so as to cut the rim of clay and leave behind a clean surface ready for the erection of the next ring. The rams were then retracted and the segments, which had been brought up the already completed tunnel on flat bogies while the excavation had been taking place, were manhandled into position against the exposed surface of the clay. In the case of the Don-Seg type, alternate segments had their wide ends pressed against the previously tightened ring, and the others their narrow ends towards but 4in. from the edge of this ring. Segments in the top half of the ring were temporarily supported by being wedged off steel bars projecting out from the back of the shield, and the ring was then expanded and tightened by operating the rams to drive home the six key segments.

segments.

In the case of the Wedge Block type of lining, which was used for a length of about 1,000yd. of the tunnel, the same procedure was used with the exception that all segments except the key were placed in position with their ends against the end of the previously constructed ring and the tightening was achieved by driving home the key segment at the top.

and the tightening was achieved by driving home the key segment at the top.

After a ring had been completed excavation was recommenced and the cycle of operations repeated to build the next ring, and so on.

Rotary Shield

A rotary digging shield for use with the Don-Seg type of lining was also developed by Kinnear, Moodie and Co., Ltd., and was used for the construction of about 9,000yd, of the tunnel. The forward end of this shield was provided with radial cutting blades which were rotated as the shield was pushed forward by the rams, cutting and lifting the clay so that it fell into a hopper from which it passed on to a belt conveyor which discharged it into a skip. When the shield had been pushed forward a distance equal to the length of one ring the cutting blades were stopped, the belt conveyor was moved backwards out of the way and the rams were retracted so that the erection of the ring could be proceeded with in the same manner as previously described. With this type of shield as much as 360ft. of tunnel could be constructed in one week when in good ground, which was about twice the rate which could be made with the shield for hand digging in similar ground.

type of shield as much as 360ft. of tunnel could be constructed in one week when in good ground, which was about twice the rate which could be made with the shield for hand digging in similar ground.

Tunnelling, which began in February, 1955, and was completed by June, 1959, was carried on in both directions from most of the shafts and when the drives from adjacent shafts approached each other, a shield dismantling chamber, of 13ft. 6in. internal diameter and lined with bolted type segments, was constructed. In this chamber a mass concrete cradle, with

longitudinal steel rails partly embedded in in its upper surface, was erected in the invert and the two shields were driven on to it in succession. There they were dismantled to enable them to be transported along the tunnel and up the shaft for further use.

To keep the alignment of the tunnel true to the desired line and level involved very accurate surveying and also the skilled manipulation of the rams in order to correct any errors in the line followed by the shield. As an adjacent shaft might be hidden by buildings it was necessary, in order to continue the line of the tunnel, to carry out a traverse, involving a measurement of the lengths of lines and their angles in relation to the centre line of the tunnel, along the intervening roads and streets.

The final operation comprised the lining of the main with a \(\frac{1}{2}\)in, thickness of mortar applied by machine so as to leave a smooth surface which will keep the resistance to flow of the water in the tunnel to a minimum.

Consultants and Contractors

The total cost of the scheme amounts to about £4,300,000. Design and supervision of the civil engineering works was carried out by Sir William Halcrow and Partners, London, S.W.I. in collaboration with the Board's chief engineer, Mr. H. F. Cronin, until his retirement in May, 1959, and then with his successor, Mr. W. M. Lloyd Roberts. The chief engineer was responsible for the installation of pumping machinery.

responsible for the installation of pumping machinery.

Among the principal contractors were the following: tunnel contracts, No. 2 (Campden Hill to St. Pancras); No. 4 (Hampton Intake to Richmond Park); and No. 5 (Richmond Park to Kensington)—Kinnear, Moodie and Co., Ltd.; tunnel contract No. 1 (Islington to Stoke Newington, Hackney to Lockwood)—A. Waddington and Son, Ltd.; tunnel contract No. 1A (Stoke Newington to Hackney)—Balfour, Beatty and Co., Ltd.; 54in. pumping mains—Wm. Press and Son, Ltd.; lining of tunnel and 54in. mains—Turriff Construction Corporation, Ltd.; pumping machinery, etc., at Lockwood and Hampton shafts—Harland Engineering Co., Ltd.; pumping machinery at Stoke Newington and Barn Elms shafts—Hathorn, Davey and Co., Ltd.; cranes at Lockwood, Stoke Newington, Barn Elms and Hampton works—John Smith (Keighley), Ltd.; telephone cable along tunnel, and instruments—British Insulated Callender's Cables, Ltd.; power and control cables at Lockwood shaft—George E. Taylor and Co. (London), Ltd.; switchgear and transformers at Stoke Newington and Ferry Lane works—Brush Electrical Engineering Co., Ltd.; shafthead building at Barn Elms—Robert Hart and Sons, Ltd.; valves—Guest and Chrimes Ltd.

ACCIDENT SURVEY REVEALS HIGH FREQUENCY FIGURES

A MAN working on building sites in the London area can expect five serious accidents in the course of his working life. That is the conclusion of an accident frequency survey recently completed by Mr. F. D. Mann, safety officer, Wates, Ltd., according to the current issue of Wates News.

Breaking down all lost time accidents by areas and locations, and relating them in terms of working hours lost to the average working life in the building industry, the analysis points out the terribly high number of accidents each man in the company may expect to suffer—if the current rate of accidents is not controlled and reduced.

While sites in the London area have an expectation of five accidents per man, the Birmingham sites have an expectation only slightly better at 4.7.

slightly better at 4.7.

Wates Built Homes sites, calculated separately, have an expectation of 4.7 accidents per man, and there is a similar figure for the Bedfont plant of Modular Concrete Co. The frequency rates for maintenance department and plant yard work out a little better at 3.6 and three. The average for the whole company is 4.8.

Average Working Life

The figures were drawn up to the end of the first half of this year. Mr. Mann expects the end-of-year figures to provide even more interest because they will be compared with figures from building firms of similar size to Wates. The frequency rate is carefully calculated on the International Labour Organisation formula. Men directly employed by subcontractors on Wates sites are not included. Average working life in the industry is reckoned to be 100,000 working hours.

FIRE SERVICE BUILDING Lack of Progress Deplored

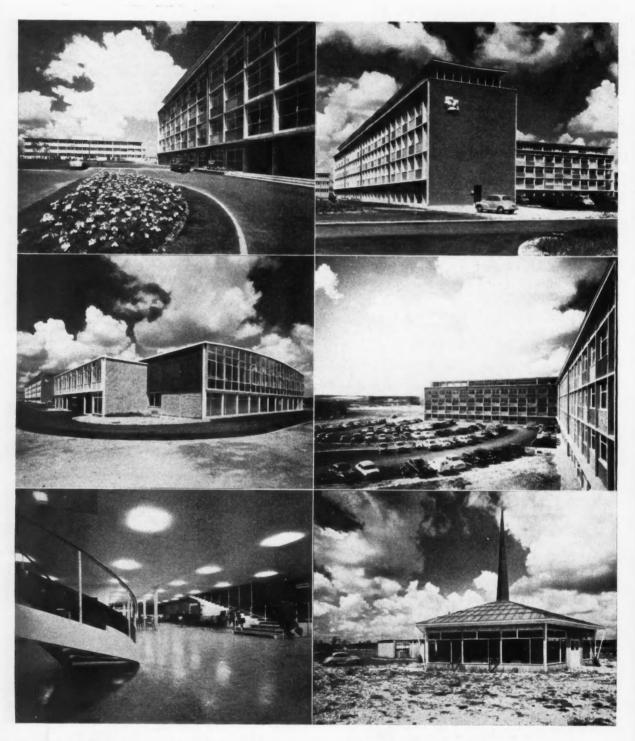
Mr. J. A. Broadbent, chief fire officer of Wiltshire, said in his recent presidential address at the annual conference of the Chief Fire Officers' Association, that many fire stations were bad for public relations, unfair to officers and men, a deterrent to recruiting and a drag on operational and administrative efficiency.

The lack of progress with fire service building had brought disappointment and frustration to fire authorities and desperation to chief fire officers trying to cope with the problem on an annual budget.

"We must have support in our building problems if we are to maintain a reasonable standard of efficiency," he said.



An artist's impression of the £16m. Severn suspension bridge, which should be completed by 1965-66. As reported last week, the Ministry of Transport is now inviting tenders for the construction of the substructure of the bridge and of access roads to the site. Erection of the bridge superstructure and the building of the Wye Bridge and eastern and western approach roads will be carried out by further contracts. The consulting engineers are Mott, Hay and Anderson, in association with Freeman, Fox and Partners. Sir Percy Thomas is the consulting architect



(Top left): Reactor Group offices with health physics building in rear (Centre left): The canteen

(Bottom left): Entrance hall of the restaurant

(Top right): Reactor Group offices (Centre right): Reactor Group offices with garden car park (Bottom right): The social club

CONSTRUCTION AT WINFRITH

THE development of the Atomic Energy Establishment at Winfrith, Dorset, for the United Kingdom Atomic Energy Authority has proved a formidable challenge to both designers and contractors. But, as a recent visit to the site by The Contract Journal showed, this challenge has been more than met during the three years the project has been in progress.

project has been in progress.

The major portion of the Winfrith site was waterlogged peaty heathland, scarred by wartime battle training and devoid of any shelter from the weather. Now stand reactors, reactor halls, administrative offices and a host of other buildings, while other developments such as the "Dragon" project described in our issue of August 18, 1960, are under construction. The building and civil engineering contractors, Turriff Construction Corporation, Ltd., have successfully maintained the programmes set and found solutions to the many problems that have constantly arisen from the difficult site conditions and from the continual revisions of planning and design that are inherent in the development of an advanced experimental establishment. This development is continuing and Turriff have recently obtained further contracts covering the construction of the Zebra reactor and ancillary buildings, the main engineering/administrative block and several buildings known as phase 3.

The whole of the construction programme is under

The whole of the construction programme is under the control of Mr. T. L. Viney, F.R.I.B.A., director of works and buildings, U.K.A.E.A., with Mr. R. S. Brocklesby, A.R.I.B.A., chief architect, responsible for the planning and design of all buildings. The resident engineer is Mr. T. G. Williams, and the Turriff team is led by Mr. L. S. E. Phillips.



Heavy reinforced concrete foundations for "Dragon" reactor



View of the Atomic Energy Establishment, Winfrith, from the south-east

John Sumner's Notebook . . .

THERE was little at the annual conference of the Trades Union Congress of significant importance to the building industry, with the possible exception of Mr. Harry Weaver's virtually echoless call for its nationalisation. The reports of his speech published in the newspapers showed that the arguments he advanced in support of the motion down in his name were not greatly dissimilar from those made in past speeches on this subject. In fact, I rather gained the impression that he searched for and used phrases and arguments which were more phrases and arguments which were more likely to hit the headlines than to give solid backing to the motion. I have been wondering since whether this was intentional.

tional.

As on previous occasions when this subject has been to the fore at the T.U.C. and building unions' conferences, the building industry proved to be an easy one to attack. After all, every job it does is as good as tailor-made, on a different site and with a different labour force. It is not surprising that there are occasions when, from the eye level of building operatives, there appears to be a certain lack of organisation, a certain amount of room for improvement in the amount of room for improvement in the because some building operations. But because some building industry is not so efficient as it might be it doesn't mean that there is a case for nationalisation. It would give no greater guarantee of immorning live in greater guarantee of improved efficiency anyway. I suspect that Mr. Weaver knows this as well as I do. Why, then, did he speak so disparagingly of his industry to his T.U.C. colleagues in the Isle of Man? The answer is a long and involved one and is not unconnected with the political turmoils, of both

national and domestic complexion, now being experienced in the building unions. The regrettable thing about the T.U.C. motion, which was approved without comment, is that it had to be handled by Mr. Weaver. The things he said cannot ment, is that it had to be handled by Mr. Weaver. The things he said cannot be expected to please the building employers, Yet next month, if the usual pattern of things is followed, he and his other colleagues of the N.F.B.T.O. will be negotiating with the employers for better wages and working conditions. The employers will be expected to look upon the ployers will be expected to look upon the ployers will be expected to look upon the operatives' submissions if not with benevolence then with understanding and sympathy. Mr. Weaver's efforts in the Isle of Man cannot be said to have encouraged the employers to display these feelings. Still, there are some long-heads among the employers and it may be that the rather false position Mr. Weaver found himself in at the TILC conference will rather false position Mr. Weaver found himself in at the T.U.C. conference will be understood. I hope so, anyway.

MR. FRANK BEAZLEY, the Clerk to MR. FRANK BEAZLEY, the Clerk to the National Joint Council for the Building Industry, has kindly sent me a copy of the 1960 report of the National Joint Apprenticeship Board. It contains some interesting facts and figures on recruitment and indenturing. Throughout its pages I have no difficulty in recognising the restraint used by Mr. Harvey G. Frost, the chairman of the Board, in seeking to excuse his fellow builders who fail to indenture apprentices in the proper way or who, worse still, do not engage apprentices at all.

I wonder how long the industry is going

tices at all.

I wonder how long the industry is going to allow this near farce to continue. A million and a half men are employed in building, the industry is busier today than possibly at any other time in its history, the prospects for the future have never been paralleled in brightness and yet less apprentices were registered and indextured. apprentices were registered and indentured

last year than in 1953. In fact, 1959 showed the lowest figure of any year in the last

seven.

The curious thing is that there seems to be no falling away in the number of boys entering the industry to train as craftsmen. This clearly means that a number of young men are receiving, at best, a haphazard form of training at the conclusion of which they will have no chance of getting indentures which will establish beyond all doubt their competence in their chases. dentures which will establish beyond all doubt their competence in their chosen crafts. These lads are not themselves to be blamed. The real culprits are either their parents, who allow them to be employed under such unsatisfactory conditions, or the employers who engage them without any intention of shouldering their responsibilities both to the industry and

responsibilities both to the industry and the boys they engage.

It seems to me that there is a big job here for the N.J.A.B. It has got to preach the gospel of properly indentured apprenticeships not only with the employers but in the other spheres where it is likely to bring results. I mean the youth employment officers and the parents of those lads ment officers and the parents of those lads contemplating building as a career. As the report says, the National Apprenticeship Scheme (which is a first-class one) must be fully implemented, and that means that all lads under training must be properly indentured under an approved written deed and registered with the Board. It is one of the best ways I know of making building a more attractive industry.

industry.

The alternative is just around the corner. The alternative is just around the corner. It is one that building employers are unlikely to welcome. Mr. John Hare, the Minister of Labour, is thinking about it now—a compulsory levy on all industry to provide training schemes so that the to provide training schemes so that the extra number of school leavers resulting from the "bulge" will have a chance to acquire technical skill to fit them for a useful branch of industry. Once such a scheme is introduced, my guess is that it will be difficult to get rid of it and It will be almoult to get rid of it and employers will be paying the levy for the rest of their natural lives. So far as building employers are concerned, they can best avoid the imposition of such a levy by using the National Apprenticeship Scheme and by ensuring that the apprentices they engage are not merely apprentices they engage are not merely apprentices. tices they engage are not merely appren-tices in name only but are properly registered and indentured.

THREE items of news in the last few weeks suggest to me that the architectural profession has got some important things to think about: the Lanarkshire things to think about: the Lanarkshire County Council do not propose to employ any more private architects because their fees are twice as high as the operating costs of the County architectural department. The R.I.B.A. say that it is impossible to compare the different rates of commission because private architects have higher currents. commission because private architects have higher overheads to carry. A strange comment this, because there seems to be a parallel between the decision of the Lanarkshire County Council in respect of architects and the policy of a much larger number of local authorities in employing their own direct labour departments for building work. The builders argue that the overheads of local authority direct labour departments are not always or not labour departments are not always or not adequately charged to the jobs undertaken by them. They are probably right, Overheads are a necessary charge on any enterprise. It is the scale of them which largely determines the level of efficiency. It will be a sad day for architects in private practice if other local authorities follow Lanarkshire's example. If they do the R.I.B.A. will have to find some better and

more cogent arguments. The builders should be able to help.

In Edinburgh the Corporation have given to building contractors the job of redeveloping sites at present occupied by 4,000 temporary houses. The cost is expected to be about £18m. The contractors will employ their own architects and surveyors.

expected to be about £18m. The contractors will employ their own architects and surveyors.

The architects in Edinburgh are up in arms and the Edinburgh Architectural Association has asked the Corporation to receive a delegation. Mr. Percy Johnson-Marshall, senior lecturer in the Department of Architecture at Edinburgh University, has told The Guardian that schemes costing £18m. demand highlevel thinking and planning as they would change the face of Edinburgh. Such schemes would normally go either to open competition or to a top-ranking architect. Handing the scheme to a contractor, he says, gives no guarantee that he would take professional advice on design or planning.

This is the old story. Contractors employ architects, properly qualified men, and then their professional colleagues seek to denigrate them and rob them of their

and then their professional colleagues seek to denigrate them and rob them of their professional status. I have written on this topic before. The architects in private practice cannot have it both ways. If a man satisfactorily passes his examinations a man satisfactorily passes his examinations to qualify as a competent architect then it must be appreciated that he remains one whether he sets up in private practice or takes employment with a local authority or a building contractor. It makes no difference to his thinking or ability. The Edinburgh Architectural Association may feel aggrieved but they must be realistic. The third item is a comment by Lord Taylor, medical director of Harlow's Industrial Health Service and a member of its Development Corporation, in an article on hospital design in the British Medical

on hospital design in the British Medical Journal. In the article he warns doctors:
"Remember, the architect and his professional colleagues are paid on a percentage basis. So the more the buildings cost the greater are their profits."

Is this why Edinburgh Corporation took

the decision it did?

B'EING away on holiday I missed the opening of the Homefinders New Homes Show, at Central Hall, Westminster. I would have liked to have heard Mr. R. Graham Page, M.P., the chairman of the Conservative Members' housing committee, saying his piece on land availability. Only the day before the Minister of Housing had sent a circular to planning authorities asking them to consider whether more land needs to be allocated for housing. Said Mr. Page: "To consider whether is a mild phrase. I would have said 'Get off the fence. Make up your minds. Mark up much more of that white land on your plans for housing—at densities which face the facts."

It is to be hoped that planning authorities take note of Mr. Page's down-to-earth language. There are signs that planning authorities have merely spiked Mr. Brooke's circular and have little or no intention of doing anything about it. This, at any rate, is the impression slowly taking shape among outsiders and I wouldn't be

intention of doing anything about it. This, at any rate, is the impression slowly taking shape among outsiders and I wouldn't be surprised if, before long, the planning authorities get a rude awakening. Neither the housebuilders, nor the architects, nor the operatives, nor indeed the Minister himself are going to let the matter rest there. The sensible planning authorities, I think, will be those which act on the circular now.

ARMY CAMP PURCHASE

The Laing Housing Co., Ltd., have bought a disused army camp at Marske-by-the-Sea, Redcar, for £15,750.
Occupying nearly 12 acres, the former Zetland Camp adjoins the western boundary of the private housing estate which the company is now developing at Marske

CLACTON SEA DEFENCE WORKS COMPLETED New Sea Wall at Holland Gap

THE completion of coast protection works at Clacton-on-Sea, for Clacton Urban District Council, was marked last week with a ceremony performed by the Minister of Housing at Holland Gap.

at Holland Gap.

Prior to the last war, the greater part of the 6.8 miles of coastline within the urban district was protected by either timber or mass concrete walls of various designs, the remainder having no protection at all. Scouring of the beach in front of these walls, particularly at Holland Haven, caused their collapse and consequent erosion of the cliffs, endangering the houses and a private concrete road on the cliff top.

War-time Scheme

War-time Scheme

A scheme prepared at this time, and based on principles which had proved successful, contained proposals for mass concrete groynes, 400ft. long, spaced at 1,000ft. intervals along the length of the proposed mass concrete sea wall, with two intermediate reinforced concrete pile and plank groynes, approximately 250ft. long, between each large groyne.

With the outbreak of war, the scheme had to be abandoned, but the rate of erosion increased to an alarming degree. About 150ft. depth of cliff was lost at one point east of Holland Gap in a period of less than four years, and there was a danger of the sea breaking through to the low-lying land north of Holland Gap. In spite of the fact that the war was in progress, Ministry approval was received for the Ministry approval was received for the erection of 33 reinforced concrete groynes, spaced about 330ft, apart along the length of coastline then in private ownership. This scheme was successful in limiting the erosion to periods of extraordinary high tides.

After the war, the original scheme was After the war, the original scheme was modified and it was decided to construct a sea wall of reinforced concrete sheet piles between the existing lengths of mass concrete wall which had been constructed in the mid-twenties. Six mass concrete walls, each 310ft. long, were also proposed, but for economy reasons only two of these were authorised.

Known as Holland Sea Defence Scheme No. 1, it provided for the coastline from Hazlemere Road to Southview Drive, a distance of about 1,975yd.

The sheet piles used in this scheme were 13in. by 7in. in section, and reinforced with four \$\frac{1}{2}\text{in.}\text{ and two \$\frac{1}{2}\text{in.}\text{ diameter bars.}} The length of the piles was 21ft., and the

exceptionally high tide. Non-return valves were provided to prevent the sea gaining access through the manhole outlets. The height of this wall was designed at 14.00 O.D., well above the level of the highest recorded tide at that time of 11.40 O.D.

Early in 1953, the sheet pile wall was



Finished section of wall deck, showing concrete sheet piles

penetration into the platimore clay averaged 12ft.

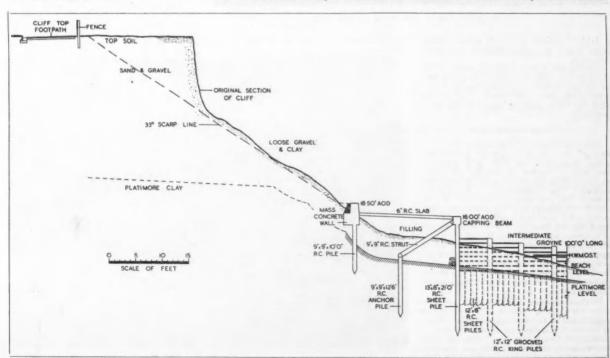
aged 12ft.

Two 9in. by 4in. timber walings, one on each side, run along the face of the sheet pile wall, which is secured to 9in. by 9in. by 10ft. long timber anchor piles at the rear of the wall by two 9in. by 3in. timber struts at each eleventh pile. The anchor piles are driven at least 8ft. into the plati-

Porous drains were provided at the rear of the wall to collect the sub-soil water from the cliffs, discharging over the platimore clay surface and also any sea water which found its way over the wall at

overtopped for the whole of its length by the tidal surge, causing erosion of the foot of the cliffs. As a result, it was decided to provide a small concrete cliff-retaining wall at the foot of the cliffs to a height of 17.5 O.D. and an impervious area between this and the sheet pile wall.

The scheme which has now been completed protects the remaining length of coastline between Southview Drive and Holland Haven, a distance of about 1,100yd. Called the Holland Sea Defence Scheme No. 2, it was amended in the light of past experience, and provides a reinforced concrete sheet pile sea wall with



Scheme No. 2: Typical cross-section of cliffs showing details of works

a concrete impervious area at the rear and a small concrete cliff-retaining wall. The highest recorded tide (February, 1953) was 15ft. 6in. above Ordnance Datum (Liverpool), with a wave of approximately 2ft. On the present scheme, the height of the sea wall is 16ft. above O.D., and the top of the cliff-retaining wall 18ft. 6in. above O.D. O.D.

In this latest scheme the use of timber In this latest scheme the use of timber walings, struts and anchor piles was omitted and reinforced concrete substituted. All sheet piles and anchor piles were cast and driven with the top 7in. of the main reinforcement exposed, and the piles were held together laterally by the construction in situ of a reinforced concrete capping beam.

Precast 9in. by 9in. reinforced concrete anchor piles, 12ft. long, were driven behind the sheet pile wall at 12ft. 6in. centres to a depth of approximately 10ft. into the platimore, and reinforced concrete precast concrete struts, 9in. by 9in. by 12ft. long were used to connect the sheet pile sea wall to the anchor piles. In-situ concrete joints over the bared reinforcement were made between anchor pile and struts, and struts and capping beam, respectively. The struts and capping beam, respectively. The 21ft. long reinforced concrete sheet piles in the sea wall were increased in size to 13 in. by 8 in. to provide greater cover over the reinforcement, which consisted of six \(\frac{3}{2}\) in. diameter mild steel bars. All piles, planks and struts were cast on site, using



General view of site during construction

and the heads of the piles were then bared to expose the reinforcement to enable a horizontal capping beam to be constructed. As far as possible the underside of the horizontally and held in position by the grooves in the king piles. The planking can be adjusted to suit variations in beach level.

level.

A total of 7,200 reinforced concrete piles and 1,800 reinforced concrete piles and 1,800 reinforced concrete planks were involved in the Holland No. 2 scheme, and the volume of concrete amounted to 6,000 cu. yd. Six hundred tons of steel was used, and 15,000 cu. yd. of earthmoving works were carried out. The cost is estimated at £224,000.

Taking two and a half years to complete, the scheme was designed by Mr. N. R. Kinlay, engineer and surveyor to Clacton Urban District Council. The contractors were May, Gurney and Co., Ltd., Trowse, Norwich.

Norwich.

"THE ARCHITECT AND THE BUILDING CONTRACT"

Five lectures on "The Architect and the Building Contract" are to be given by Mr. Donald Keating at The Building Centre, Store Street, W.C.1, at 6 p.m. on Tuesday evenings beginning November 1.

The course, which has been arranged by the Brixton School of Building, is intended primarily for building contractors, but architects and others concerned with contracts will find it of interest.

Applications for places should be made to the Secretary of the Brixton School of Building, Ferndale Road, S.W.4 (Brixton 0944). The fee for the course will be £1.



Drain under construction at rear of main wall

a 1:11:3 nominal mix with granite aggregate, which was weighbatched and poker

Expansion joints were provided every 25ft, in the cliff-retaining wall; every 30ft, in the 6in, reinforced concrete slab in the impervious area; and every 50ft, in the 18in, by 18in, capping beam to the sheet pile wall.

Groyne Construction

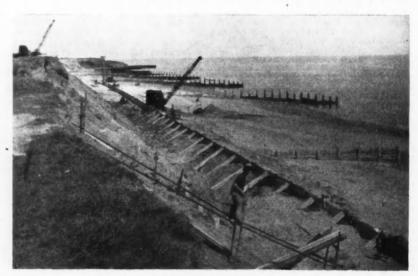
The movement of beach material on this part of the coast is from east to west, and when erosion of the cliffs took place to the east a source of supply of beach material along the coastline to the west was formed. The completion of the present scheme had the effect of cutting off this source of supply, and in order to compensate for this factor and in an effort to build up the beaches, the existing system of groynes was improved by the inclusion of 31 new groynes and the extension of certain existing ones. Twenty-seven of the new groynes are sited equidistant between the existing ones along the frontage of the Holland Cliffs and four at points along the Clacton Front.

In these groynes, 12in, by 12in, grooved The movement of beach material on this

In these groynes, 12in. by 12in. grooved piles were used, similar to the groynes constructed in the war-time scheme. There is, however, a difference in the method of planking between the piles. In this case intermediate reinforced concrete vertical sheet piles were driven into the platimore,

capping beam conformed to the level of the

Above the capping beam level precast reinforced concrete planking is placed



Completed concrete sheet piling

BRITAIN'S FIRST "MOVING PAVEMENT"

Travolators Opened at the Bank Station

THE new Bank Travolators which now link the Southern Region Waterloo and City line platforms with the high-level circulating area and Bank underground station, were officially opened last week by the Lord Mayor of London, Sir Edmund Stockdale.

of London, Sir Edmund Stockdale.

This is the first "moving pavement" in Britain, but something like the installation might have been built more than half a century ago. In 1903, five years after the Waterloo and City line railway was opened, a Leeds firm prepared a scheme for an almost identical form of transporter for use on the site. It was abandoned probably because the tunnel was crooked. So passengers continued to toil up the 1 in 7.4 incline of the 340ft. long, 13ft, wide, subway assisted by five steps at 40ft. intervals which reduced the gradient to 1 in 14.

The war and post-war capital expenditure restrictions held back the implementa-

The war and post-war capital expenditure restrictions held back the implementation of the first scheme to eliminate this long climb—a three-way escalator for which Parliamentary Powers had been obtained in 1939. When in 1955 the Southern Region was able to tackle this long-standing problem it engaged a firm of consulting engineers to approach the matter afresh matter afresh.

It was during the development of the scheme which they prepared — largely following the pre-war plan—that it became apparent that something similar to what the Americans call a "speed walk" would be cheaper and quicker to instal.

The Final Scheme

The plan finally settled on to instal two Travolators was also based on certain further advantages over the original scheme: it would carry the passengers farther than could escalators; the existing subway could be retained, and construction would involve far less interference either to passengers or to the existing drainage and services.

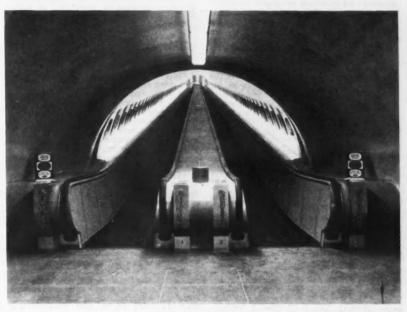
drainage and services.

The version of the Travolators developed in this country for this scheme is, in fact, based on the Otis' escalators used by the London Transport Executive. At their maximum speed of 180ft, per minute, each can carry 10,000 people an hour up an incline of 1 in 7.

Despite the comparative economy of the scheme fairly massive works were necessary to enable the installation to be carried out and to take full advantage it.
As finally approved in March, 1957, the

- scheme involved:

 (a) The construction of a tunnel of 16ft. 6in. internal diameter opposite
- (c) Substitution of the existing timber platforms by concrete, platform levels being raised 2½in. to make them 1ft. 8in. above rail level.
 (d) Re-lining of platform tunnels and the existing subway including the provision of a false ceiling to take lighting cables, and provide drainage for exercise. for seepage water.



A view from platform level

platform No. 2, running approxi-mately parallel to the existing sub-way, housing two Travolators, each 4ft. wide, together with a machinery room and substation chamber.

- (b) The construction of six new openings of the construction of six new openings of the walls separating platforms 1 and 2 to facilitate the flow of passengers from No. 1 platform to the base of the Travolators.
- (e) The diversion of all existing drains, cables and public services sitated by the above works.
- The reconstruction of the high-level subways leading to Walbrook and Poultry, including a new ticket office and the provision of certain staff amenities.

It also provided for the re-lining and redecorating of the existing subway.

Construction

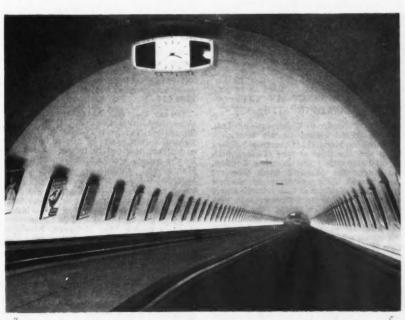
Construction

Work began in 1957 with the closing of the subways leading to Walbrook and Poultry. Between these two entrances a shaft was driven down to the level of the tunnel for the Travolators: from here an 8ft. pilot tunnel was driven down the incline and later enlarged to 16ft. 6in. in diameter. Excavation had to be carried out by night, the spoil hoisted out and removed by lorry until the line of the existing low-level siding tunnel was reached. It then became possible to remove spoil by wagons at night via Waterloo. Cast-iron segmental linings with lead caulked joints were used. At the lower end this 282ft, tunnel was

At the lower end this 282ft, tunnel was enlarged from 16ft. 6in. to 19ft, 6in. diameter for a further 52ft. to accommodate the lower landing and return machinery. Beyond this point it enlarges by another 10ft, in diameter for a distance of 19ft. 9in. to provide a circulating area for passengers arriving at the foot of the Travolators and from the existing subway.

At the same time six new openings, each At the same time six new openings, each 9ft, wide, were cut in the dividing wall between the two platforms to facilitate the flow of passengers, etc., to the base of the Travolators.

At the upper end of the Travolator tunnel the machine chamber and booking hall is approximately 100ft, long, 35ft, wide. (Concluded on page 81)



Travolators looking from ticket hall

WELSH CONTRACTORS' "MAJORITY" LUNCHEON

A LUNCHEON to commemorate the A 21st anniversary of the founding of the South Wales and Monmouth-shire Section of the Federation of Civil Engineering Contractors was held at

Cardin last week.
Mr. W. G. Mitchell, president of the Federation, in proposing a toast to the Section, mentioned the outstanding services given by the late Mr. Robert Horrocks, the founder chairman. He said that the fact that the Section was now four times as big as it was at its inaugural meeting—62 members compared with 15 demonstrated the increasing importance of both the industry and the Federation in the Principality.
Replying, Mr. John H. Davies, chairman

of the Section, referred to the progressive importance of civil engineering in the economy of the country and to the outstanding contribution of men such as the Viscount Condray, and also to Sir

standing contribution of men such as the late Viscount Cowdray, and also to Sir Malcolm McAlpine.

Mr. Ronald Horrocks, vice-chairman, proposed a toast to "The Guests," the response to which was made by Colonel C. G. Traherne, Lord Lieutenant of Glamcrash.

In addition to members of the Section, In addition to members of the Section, the guests included: Alderman Mrs. Dorothy Lewis, The Lord Mayor of Cardiff: Sir Malcolm McAlpine, a vice-president of the Federation; Mr. F. Blaise Gillie, secretary, Welsh Office, Ministry of Housing and Local Government; Mr. J. J. Liptrott, divisional road engineer, Ministry of Transport; Mr. Geraint Walters, director for Wales, Ministry of Works; Mr. R. G. Cook, district secretary, National Union of General and Municipal Workers; Mr. R. W. Daniel, controller for Wales, Board of Trade; Mr. T. Mervyn Jones, chairman, Wales Gas Board; Mr. C. Mainwaring, H.M. superintending inspector of factories for Wales Gas Board; Mr. C. Mainwaring, Fi.M. superintending inspector of factories for Wales; Mr. Henry Horrocks, Section secretary 1939-51; Mr. R. G. Newell, Holder of The Federation of Civil Engineering Contractors South Wales Scholarship.

BUILDING INDUSTRY'S PART IN **EXPORT FIELD**

"The building industry as a whole does in fact play a part in the United Kingdom export field, but not nearly enough," said Mr. S. C. Greatrix in his presidential address at the recent annual general meeting of the Building Surveyors' Institute.

"Thirty per cent. of Britain's exports are made by only 40 firms, none of them in building," he continued. "What is to happen if this continual buffeting of our engineering exports from country to country continues? Eventually we shall feel the rot and our present great and increasing prosperity will be halted.

"Here is a chance for more building contractors to seek work abroad. By the very

tractors to seek work abroad. By the very nature of our business we will be welcomed, for the majority of labour is recruited locally, a good selling point for any striving Government. It means, there-

any striving Government. It means, therefore, that we are to sell our 'know-how'.

"Her Majesty's Government are continually offering more and more advice and incentive to such would-be exporters, although not enough by the standards set in some quarters. Forty-five per cent, of the total capital expenditure in the United Kingdom last year went to the building Kingdom last year went to the building and allied industries—a fair slice of the cake one would agree. Let us therefore train our men and so order our affairs that we may make ample contribution abroad."

INTERNATIONAL ROAD TAR CONFERENCE

The next plenary session of the International Road Tar Conference will be held at Harrogate from May 29-31, 1961.

BRITISH RAILWAYS' ELECTRIFICATION CONFERENCE

REPRESENTATIVES of nearly 50 different railway administrations from countries all over the world are attending the British Railways' Electrification Con-ference which was opened on Monday at the Institution of Civil Engineers, London, by Sir Brian Robertson, chairman of the British Transport Commission.

The conference, which concerns British experience and progress with the alternat-ing current system of railway electrifica-tion, closes tomorrow, October 7. In association with it, an exhibition of electric locomotives, passenger stock and electrification equipment is being held at British Railways' Battersea Wharf Depot, Queenstown Road, Battersea.

Arranged jointly by the British Transport Commission, the British Electrical and Allied Manufacturers' Association, and the Locomotive and Allied Manufacturers' Association of Great Britain, facturers' Association of Great Britain, the conference has entailed the presentation of more than 40 technical papers by leading British experts. Yesterday delegates travelled by special train from Euston to Manchester where they saw the recently opened electrified line between Manchester and Crewe. From Manchester they left by electric multipleunit train for Crewe and stopped en route to visit the new power-operated signal boxes at Manchester (Piccadilly) and Wilmslow, and the electrification depot at slow, and the electrification depot at

The presentation of technical papers will be concluded today, when delegates will discuss overhead conductor line equipment and its erection, civil engineering, electric traction research, signalling and telecommunications. Tomorrow a visit will be paid to the Eastern Region electrification

FINANCING £4,250,000 GREENOCK DOCK PROJECT

The arrangements for the financing of the £4,250,000 graving dock at Greenock have been largely completed. Final negotiations are now taking place between the Firth of Clyde Dry Dock Co., Ltd., and the Treasury, who are putting forward a £3m. loan.

The new dock, which is to be the biggest in Britain, will be at least 1,000ft. long with extension to 1,150ft. It will be able to cater for vessels of up to 100,000 tons, offering fitting-out facilities and an oil cleaning installation capable of handling the largest chips affect. the largest ships afloat.

More than 1,000ft, of jetties will accompany the construction of the dock, and a large-scale ship repairing and dry docking organisation is also included.

"TELEVIEWING" AT CITY **BUILDING SITE**

lor Woodrow Construction, Ltd., installed closed circuit television, have installed closed circuit television, provided by Marconi, at the new building they are erecting at the Gracechurch Street-Fenchurch Street junction, London, E.C.3, for the Midland Bank Overseas Branch. A 21in, monitor in a new observation platform at Gracechurch Street enables the public to watch work in progress in areas which would otherwise be hidden. A control unit mounted near the monitor enables spectators to move the camera in bearing and elevation to view different parts of the site.

The new building for the Midland Bank Overseas Branch, to be completed by autumn, 1961, will be 11 floors (two below ground level) and provide about 140,000 sq. ft. of floor area. The architects are Whinney, Son and Austen Hall, and the consulting engineers, Frederick S. Snow

Late Construction News

IMPERIAL COLLEGE EXTENSIONS.—Wates, Ltd., are about to begin work on the erection of a mechanical engineering building at Exhibition Road and Imperial Institute Road, London, S.W.7, for the Imperial College of Science and Technology. The contract is valued at £700,000. Norman and Dawbarn, 7 Portland Place, London, W.1, are the architects and structural consultants, and the quantity surveyors are W. C. Inman and Partners, 7 New Square, London, W.C.2. The mechanical engineers are Donald Smith, Seymour and Rooley, 45 Park Lane, London, W.1.

BASILDON OFFICE BLOCK.—Tenders are now being invited from selected contractors for the erection of an office block and development on the courtyard site at Basildon, Essex, for Carreras, Ltd. Plans have been prepared by Elliott, Cox and Partners, 172 Buckingham Palace Road, London, S.W.1.

HARROW GRAMMAR SCHOOL.—Middlesex C.C. have accepted the £158,000 tender of Prestige and Co., Ltd., 149 Grosvenor Road, London, S.W.1, for building the Roxeth Manor Grammar School, Harrow. The county architect, Whitfield Lewis, pre-

SOUTHAMPTON DEVELOPMENT. — A contract worth about £600,000 has been placed with Brazier and Son, Ltd., 303 Portswood Road, Southampton, for the erection of shops and offices at the corner of Above Bar Street and Civic Centre Road, Southampton. G. T. (London), Ltd., are the promoters of the scheme, which includes a nine-storey tower block. Oliver Carey, 1 Dale Close, Gosmore Road. Hitchin, Herts., is the architect, and Croot and Partners, Bournemouth, are the quantity surveyors. The consulting engineers are Ove Arup and Partners, 8 Fitzroy Street, London, W.1.

ARMY OFFICES AT ELTHAM.—The War Department are inviting tenders for a new office block for the Army Institute of Education at Eltham Palace, Kent. The consultants are Bryan and Norman Westwood and Partners, architects, 21 Suffolk Street, London, S.W.1; Leon and Westwood, quantity surveyors, 91 Wigmore Street, London, W.1.

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"Highways Superintendents Can Play Prominent Part"

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Engineers and Contractors

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WEISH CONTRACTORS' "MAJORITY" LUNCHEON

LUNCHEON to commemorate the A 21st anniversary of the founding of the South Wales and Monmouth-shire Section of the Federation of Civil Engineering Contractors was held at Cardia last week.

Mr. W. G. Mitchell, president of the Federation, in proposing a trast to the Section, mentioned the outstanding services given by the late Mr. Robert Horrocks, the founder chairman. He said that the fact that the Section was now four times as big as it was at its inaugural meeting of a members compared with IS.

four times as big as it was at its inaugural meeting—62 members compared with 15—demonstrated the increasing importance of both the industry and the Federation in the Principality.

Replying, Mr. John H. Davies, chairman of the Section, referred to the progressive importance of civil engineering in the economy of the country and to the outstanding contribution of men such as the late Viscount Cowdray, and also to Sir late Viscount Cowdray, and also to Sir Malcolm McAlpine.

Mr. Ronald Horrocks, vice-chairman, proposed a toast to "The Guests," the response to which was made by Colonel C. G. Traherne, Lord Lieutenant of Clamprocks. Glamorgan.

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In addition to members of the Section, the guests included: Alderman Mrs. Dorothy Lewis, The Lord Mayor of Cardiff; Sir Malcolm McAlpine, a vice-president of the Federation; Mr. F. Blaise Gillie, secretary, Welsh Office, Ministry of Housing and Local Government; Mr. J. J. Liptrott, divisional road engineer, Ministry of Transport; Mr. Geraint Walters, director for Wales, Ministry of Works; Mr. R. G. Cook, district secretary, National Union of General and Municipal Workers; Mr. R. W. Daniel, controller for Wales, Board of Trade; Mr. T. Mervyn Jones, chairman, Wales Gas Board; Mr. C. Mainwaring, H.M. superintending inspector of factories for wales das baidt, Mr. C. Mainwalls, I.M. superintending inspector of factories for Wales; Mr. Henry Horrocks, Section secretary 1939-51; Mr. R. G. Newell, Holder of The Federation of Civil Engineering Contractors South Wales Scholarship.

BUILDING INDUSTRY'S PART IN **EXPORT FIELD**

"The building industry as a whole does in fact play a part in the United Kingdom export field, but not nearly enough," said Mr. S. C. Greatrix in his presidential address at the recent annual general meeting of the Building Surveyors' Institute.

"Thirty per cent. of Britain's exports are made by only 40 firms, none of them in building," he continued. "What is to happen if this continual buffeting of our engineering exports from country to country continues? Eventually we shall feel the rot and our present great and increasing prosperity will be halted.

"Here is a chance for more building contractors to seek work abroad. By the very nature of our business we will be welcomed, for the majority of labour is recruited locally, a good selling point for any striving Government. It means, therefore, that we are to sell our 'know-how'.

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any striving Government. It means, therefore, that we are to sell our 'know-how'.

"Her Majesty's Government are continually offering more and more advice and incentive to such would-be exporters, although not enough by the standards set in some quarters. Forty-five per cent. of the total capital expenditure in the United Kingdom last year went to the building and allied industries—a fair slice of the cake one would agree. Let us therefore train our men and so order our affairs that we may make ample contribution abroad."

INTERNATIONAL ROAD TAR CONFERENCE

The next plenary session of the International Road Tar Conference will be held at Harrogate from May 29-31, 1961.

BRITISH RAILWAYS' ELECTRIFICATION CONFERENCE

REPRESENTATIVES of nearly 50 different railway administrations from countries all over the world are attending the British Railways' Electrification Con-ference which was opened on Monday at the Institution of Civil Engineers, London, by Sir Rian Polyston delivery, and the by Sir Brian Robertson, chairman of the British Transport Commission.

The conference, which concerns British experience and progress with the alternating current system of railway electrification, closes tomorrow, October 7. In association with it, an exhibition of electric locomotives, passenger stock and electrifications. cation equipment is being held at British Railways' Battersea Wharf Depot, Queenstown Road, Battersea.

Arranged jointly by the British Transport Commission, the British Electrical and Allied Manufacturers' Association, and the Locomotive and Allied Manufacturers' Association of Great Britain, facturers' Association of Great Britain, the conference has entailed the presentation of more than 40 technical papers by leading British experts. Yesterday delegates travelled by special train from Euston to Manchester where they saw the recently opened electrified line between Manchester and Crewe. From Manchester they left by electric multipleunit train for Crewe and stopped en route to visit the new power-operated signal boxes at Manchester (Piccadilly) and Wilmslow, and the electrification depot at Crewe. Crewe.

The presentation of technical papers will be concluded today, when delegates will discuss overhead conductor line equipment and its erection, civil engineering, electric traction research, signalling and telecom-munications. Tomorrow a visit will be paid to the Eastern Region electrification

FINANCING £4,250,000 GREENOCK DOCK PROIECT

The arrangements for the financing of the £4,250,000 graving dock at Greenock have been largely completed. Final negotiations are now taking place between the Firth of Clyde Dry Dock Co., Ltd., and the Treasury, who are putting forward a £3m lan.

The new dock, which is to be the biggest in Britain, will be at least 1,000ft. long with extension to 1,150ft. It will be able to cater for vessels of up to 100,000 tons, offering fitting-out facilities and an oil cleaning installation capable of handling the largest ships affast the largest ships afloat.

More than 1,000ft, of jetties will accompany the construction of the dock, and a large-scale ship repairing and dry docking organisation is also included.

"TELEVIEWING" AT CITY **BUILDING SITE**

Taylor Woodrow Construction, Ltd., ave installed closed circuit television, have installed closed circuit television, provided by Marconi, at the new building they are erecting at the Gracechurch Street-Fenchurch Street junction, London, E.C.3, for the Midland Bank Overseas Branch. A 21in monitor in a new observation platform at Gracechurch Street enables the public to watch work in progress in areas which would otherwise be hidden. A control unit mounted near the monitor enables spectators to move the camera in bearing and elevation to view different parts of the site.

The new building for the Midland Bank

The new building for the Midland Bank Overseas Branch, to be completed by autumn, 1961, will be 11 floors (two below ground level) and provide about 140,000 sq. ft, of floor area. The architects are Whinney, Son and Austen Hall, and the consulting engineers, Frederick S. Snow and Partners. and Partners.

Late Construction News

IMPERIAL COLLEGE EXTENSIONS.—Wates, Ltd., are about to begin work on the erection of a mechanical engineering building at Exhibition Road and Imperial Institute Road, London, S.W.7, for the Imperial College of Science and Technology. The contract is valued at £700,000. Norman and Dawbarn, 7 Portland Place, London, W.1, are the architects and structural consultants, and the quantity surveyors are W. C. Inman and Partners, 7 New Square, London, W.C.2. The mechanical engineers are Donald Smith, Seymour and Rooley, 45 Park Lane, London, W.1. IMPERIAL COLLEGE EXTENSIONS.-

Basildon Office Block.—Tenders are now being invited from selected contractors for the erection of an office block and development on the courtyard site at Basildon, Essex, for Carreras, Ltd. Plans have been prepared by Elliott, Cox and Partners, 172 Buckingham Palace Road, London, S.W.1.

HARROW GRAMMAR SCHOOL.—Middlesex C.C. have accepted the £158,000 tender of Prestige and Co., Ltd., 149 Grosvenor Road, London, S.W.I, for building the Roxeth Manor Grammar School, Harrow. The county architect, Whitfield Lewis, prepared places pared plans.

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CONTROLLING SHAREHOLDERS AND **DEATH DUTY**

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ROLLOWING the publication of an article on this subject in our issue of August 18, 1960, "A Lawyer Considers... Controlling Shareholders and Death Duty," Mr. E. J. Sims of East Horsley, Surrey, writes:

The first two paragraphs brings one up with a jerk and sets a problem that is fraught with difficulties for principal shareholders of private companies. To pass over control to others by transferring the shareholding may be an easy way of endeavouring to minimise death duties but it is not the answer to a man's peace of mind where his inclination is to maintain his control. Would "A Lawyer Considers" be prepared to give the benefit of his knowledge (without prejudice) on a typical case: out prejudice) on a typical case:

A private company where the controlling interest is held 50/50 by two men who have built up a successful small business and have no wish to transfer their shareholding and control in order to minimise death duties, are worried that if either should die the business would suffer from the payment of death duties if demanded promptly. Are ordinary shares in this type of company valued at par for the purpose of probate; if not, how are they valued and what period of time would the administrators have for payment? Further, if the administrators are obliged to find money to pay duty and have to sell some or all of the shareholding, have a say in their disposal?

"A LAWYER CONSIDERS" replies:—
Estate or death duty is levied on the value of the property of the deceased at the date of death. Such property includes of course all shares he owns.

A person's property is divided up into real and personal estate: real estate is

A person's property is divided up into real and personal estate; real estate is land and buildings; personal estate is all other types of property and thus shares are personal estate.

Upon death it is the duty of the personal representatives of the deceased to assess the value of the estate and submit their affidavit to the Inland Revenue swearing that to the best of their knowledge what they have inserted in the affidavit is the whole estate of the deceased and its value. Until this affidavit is lodged and the estate whole estate of the deceased and its value. Until this affidavit is lodged and the estate duty on that part of the estate which represents the personal estate is actually paid the personal representatives cannot obtain probate of the will or, if there is no will, get letters of administration. Interest at 2 per cent, is charged on the date of the will be represented the personal estate from the date. duty on the personal estate from the date of death until payment—no doubt to

ensure prompt payment.

It will be seen that death duty has to be found fairly soon after the death on the personal estate; duty on the real estate,

presumably because it is more difficult to realise it, where necessary, is not payable until 12 months after the date of death.

Value of all property of the deceased is value of an property of the deceased is obtained by applying the rule that it is the price the property would fetch if sold in the open market at the time of the death. In regard to shares of the deceased in a family company then their value is their market price at date of death.

Clearly such shares, unlike those quoted Clearly such shares, unlike those quoted on a stock exchange, have no immediately ascertainable value. Indeed they may very will never have been sold and the articles of the company will contain restrictions on their sale. To apply the valuation rule therefore it has been decided that in respect of such "restricted" shares their value is the price which would be given in the open market on terms that the purchaser should be duly registered as holder of the shares but that he would then hold them subject to the same restrictions—in other words what a purchaser would pay

of the shares but that he would them hold them subject to the same restrictions—in other words what a purchaser would pay to stand in the shoes of the deceased.

To find this figure it is necessary to estimate their value on theoretical lines, e.g., by a comparison of past and prospective dividends with the yield on his money which a purchaser would expect based on the yields obtainable from quoted shares of a similar class with an allowance for the relative unmarketability of the unquoted shares, Of course many private companies do not pay dividends, preferring to exhaust the profits in directors' fees and so there may be no dividend record. In that case regard must be had not to the dividend but to the earnings record of the company. Regard is also had in assessing value to the break-up value of the shares, that is the net amount which the shareholder of those shares would receive in the event of a liquidation; this value may well be greater than that arrived at by looking at the dividend or earnings record of the company—such earnings record may be greatly influenced by personal factors, e.g., the qualifications of the deceased shareholder. Clearly in such valuations the result is at best a reasoned guess and agreeing such valuations is one of the most difficult problems in dealing with a deceased person's estate.

It was found, however, that the value of this type of share in family-type com-

It was found, however, that the value of this type of share in family-type companies was fairly low and in 1940 legislation was brought in to allow valuation of the shares of a controlling shareholder in such a company by reference not to market value but to the net assets of the market value but to the net assets of the company. It was this type of valuation, which often results in a high valuation, which was the point discussed in the case in the article to which Mr. Sims refers.

In 1954 it was provided by the annual Finance Act that if shares of a deceased person in this type of company were in fact sold within three years after the death and the sale was made at arm's length for a price freely negotiated at the time of the sale then that sale price must be substituted for the earlier valuation and any adjustment in duty made.

By the 1960 Finance Act it is provided that the valuation of assets of a company

that the valuation of assets of a company for the purposes of finding the value of for the purposes of finding the value of shares on an assets basis must proceed on the assumption that the business is going to be carried on—in other words what a purchaser would value the assets as if he was going to carry on the business and not realise its assets. The effect of this may reduce some of the excessive valuations under the 1940 Act.

The answers to Mr. Sims' points then are:

(a) Shares in this family-type company are almost never valued at par but by the complex methods outlined above—it is essential that with shares of any value the personal representatives employ a qualified

representatives employ a qualified accountant to argue value with the Estate Duty valuers.

(b) The personal representatives have to pay the duty on the personal estate before they can deal with the estate at all; interest runs on such duty from the date of death; and in any case the duty must be paid within six months of the death.

(c) If the deceased's shares have to be sold then the rights of other share-holders on such a sale of shares are almost certainly laid down in the articles of the company; usually they must be offered to the other share-holders at a price to be agreed but holders at a price to be agreed but in default of agreement at a price to be fixed by the auditor of the company. From what has been said earlier one will realise that this sale price will not necessarily be accepted as the shares' value by the Estate Duty Office even if the sale is within three years of the death and the terms of the 1954 Act apply—it might

terms of the 1954 Act apply—it might not be held to be a sale at arm's length. The situation could arise whereby one might have to sell shares to other shareholders at a price fixed by the auditor which is well below their value for estate duty purposes at the time of death.

One point must be made. It is not until an estate reaches some size that estate duty becomes high but in these days of inflated value especially of property it is surprising how quickly a person's estate can mount in value. Probably one of the best methods of meeting the estate duty problem is to have an insurance policy for the probable amount of the duty; policies to meet this kind of situation are issued and advice would be given by most reputable insurance companies. reputable insurance companies.

(Concluded from page 70)

adjunct when carrying out maintenance on the interior of the charge machine. A 45-ton crane is installed in the tower for lifting the top off the machine, together with a 25-ton crane in the main hall area.

The walls of this building have been constructed from specially fabricated concrete slabs erected inside the main framework so as to present a completely smooth surface for ease of decontamination if necessary.

The building will also be equipped with a rehearsal shaft and a complete set of control equipment. The concreting of this shaft is complete but the installation of the control equipment will be delayed until nearer the time that the first reactor is made critical.

Between the reactors, in the space used initially for prefabricating concrete floor sections, the cartridge cooling pond has been re-excavated. It will perhaps be recalled that the blasting for the pond was carried out at an early stage, to avoid later disturbances to the reactors, the broken rock being left for subsequent removal. Most of the concrete lining has been poured and additionally the conveyor tunnels to the block-houses are virtually finished.

The cartridge cooling pond is 186ft. long by 53ft. wide by 18ft. deep, the capacity being such that the complete fuel charge of one reactor can be dumped into it in the case of emergency. The pond is divided into two unequal sections. Under normal conditions the larger section will store the discharged cartridges, and the smaller one cartridges from channels in which a burst has occurred.

Excavation work is proceeding on the foundations of the active-solid-waste building. About half of the associated tunnelling is finished and steady progress is reported on the blinding and asphalting.

The active-waste disposal plant, on the south side of the two reactors, consists

of the treatment house, delay tanks, and cartridge cooling pond sludge tanks. The delay-tank walls and protective brickwork, and the associated pumphouse are well on the way to completion. The walls and asphalt tanking of the sludge tanks have been finished and the brickwork for them is at an advanced stage. Work on the half-completed treatment house is still continuing. Other buildings in varying stages of erection are the decontamination building, the laundry, and feed treatment and filtration buildings.

Facts and Figures

Area of site-110 acres; reclaimed from Area of site—110 acres; reclaimed from sea—17 acres; rock excavated—174,000 cu. yd.; total steel used (estimated)—17,000 tons; total concrete poured (estimated)—185,000 cu. yd.; weight of each reactor (including pressure vessel and contents)—80,000 tons; installed capacity (electrical)—360-MW; new roads on site—4 miles; men working on site (a) peak—2,500, (b) at present—2,300.

MUNICIPAL ENGINEERS VISIT LEICESTER SEWAGE DISPOSAL WORKS

Progress of £2,750,000 Scheme

MEMBERS of the East Midlands
District of the Institution of Municipal Engineers recently visited the £2,750,000 sewage disposal works which Leicester City Council are constructing at Wanlip.

at Wanlip.

All the sewage from the city is now treated on the sewage farm at Beaumont Leys, two miles from the city centre. Two pumping stations pump all the sewage from the town to the farm which covers an area of 1,560 acres. At the Abbey pumping station the pumps lift the sewage through a height of 167ft, and the steam-driven beam engines first used in 1890 can still be seen in operation. seen in operation.

beam engines first used in 1890 can still be seen in operation.

The original settlement tanks and contact beds were also constructed in 1890 to deal with a dry weather flow of 2,750,000 gallons per day. The borough boundaries were extended in the following year; the population was increased from 142,000 to 175,000 and an 8ft. diameter outfall culvert was built from the Abbey pumping station to Wanlip to give relief in time of storm.

In 1930 more settlement tanks were added, 30 filter beds each 100ft. diameter were provided and the pumping capacity was enlarged by the installation of three electrically driven ram pumps. After the war, eight of the filter beds were converted to the re-circulation system but despite this and other alterations the works became seriously overloaded. In 1954 when the population had increased to 280,000 it was quite obvious that a new works was necessary.

Wanlip Works

Wanlip Works

The site at Wanlip covers an area of 93 acres and it is two miles north of the city boundary. The existing 8ft, diameter brick stormwater culvert with a capacity of 90,000,000 gallons per day will be used to carry the sewage by gravity to the site of the new works.

The new works have been designed to take a D.W.F. of 20,600,000 gallons per day from a population of 329,000 with provision for extensions to take 22,500,000 gallons per day from a population of 360,000.

On arrival at Wanlip the sewage will be elevated about 20ft, in order to gravitate through the works which will consist of detritus tanks, mechanically raked screens, sedimentation tanks, surface aeration units, final settlement tanks and

tion units, final settlement tanks and sludge digestion.

Work on the site was commenced in December, 1958, and contract No. 1 was a small one for sinking boreholes to ascertain ground conditions.

Contract No. 2, awarded to John Laing and Son, Ltd., is now nearing completion. It consisted of the construction of the surface aeration units, final settling tanks, return sludge pumping station, final effluent outfall and access roads.

The aeration units comprise 126 "Sim-

effluent outfall and access roads.

The aeration units comprise 126 "Simplex" high intensity aeration cones and the aeration period will be 11½ hours, machinery being supplied by Ames Crosta Mills and Co., Ltd.

The final sludge separating tanks will comprise 14 circular tanks of 68ft, diameter, sludge being removed by mechanically operated scrapers supplied by W. E. Farrer and Co., Ltd.

Return sludge pumps of the axial flow

mechanically operated scrapers supplied by W. E. Farrer and Co.. Ltd.

Return sludge pumps of the axial flow type will be installed with a maximum pumping capacity of 100 per cent. D.W.F.

Contract No. 3, commenced in June by Tarslag, Ltd., consists of the sedimentation and stormwater tanks with associated channels, etc. The sedimentation tanks will comprise eight rectangular units 187ft. 6in. by 59ft. and the eight stormwater tanks of the same size will be used for flows exceeding 2.34 by D.W.F. before discharge into the River Soar.

A contract has recently been let to Harland and Wolff, Ltd., for the supply of five dual/fuel engines. Allen self-

regulating alternators are to be used resulting in saving in cost and space for starting equipment.

All the sludge will be digested in four

All the sludge will be digested in four primary and four secondary tanks and it is hoped that the gas produced from digestion will be sufficient to run all the machinery on the works.

The disposal of the digested sludge by means of composting it with household refuse has been under consideration for some time, and although no decision has been finally taken, the latest figures indicate that this is likely to be the most economic method of disposal. It will also increase the fertility of the land as well as ensuring complete disposal of the sludge and house complete disposal of the sludge and house

refuse.

The works have been designed by J. D. and D. M. Watson, consulting engineers, in conjuction with Mr. John L. Beckett, M.I.C.E., M.Inst.Mech.E., M.I.Mun.E., M.T.P.I., the city engineer and surveyor.

President Entertained

A correspondent writes: Prior to the meeting, the East Midland District executive committee entertained the president of the Institution, Mr. Arthur S. Hamilton, who was accompanied by Mr. H. V. Overfield, the Institution's secretary.

Members later assembled at the resident engineer's office on the site, and in conjunction with the consulting engineers, the city surveyor's department provided a display of working drawings of the scheme.

Mr. Beckett then welcomed members, and after a brief outline of the scheme introduced Mr. Dwyer and Mr. Griffin of the consultants who gave a resumé of the work involved by reference to the plans.

Through the able arrangements of Mr. R. E. Preece, the resident engineer, members were afterwards allocated into eight parties, with guides attached to each, and

bers were afterwards allocated into eight parties, with guides attached to each, and conducted over the work in progress for a detailed inspection.

At the conclusion of the inspection the visitors adjourned for a general discussion to the canteen of the contractors, John Laing and Son, Ltd., where following a buffet tea the district chairman, Mr. M. L. Francis, borough engineer and surveyor, Derby, introduced the president and concluded the meeting with appropriate votes of thanks to Mr. Beckett and his staff, the consulting engineers and the contractors.

SHARING OF COAST PROTECTION COSTS Burden Should be Distributed, Says Minister

DECISIONS on coastal defence plans would inevitably be taken out of the hands of local people if the whole financial burden were shouldered by the Government, said Mr. Henry Brooke, Minister of Housing and Local Government last week

Minister of Housing and Local Government, last week.

Mr. Brooke, who was speaking at a ceremony marking the completion of Clacton Urban District Council's coast protection works (see page 77), went on, "I think that the people who live in the area ought to have an effective say in the planning of the sea defences which affect them so vitally.

"I am quite certain that holiday resorts

"I am quite certain that holiday resorts which so often take the opportunity to embody promenade schemes and planting schemes and other attractions for visitors in the construction of the sea defences, as you in Clacton have done, would not care much for the purely utilizing forms that you in Clacton have done, would not care
much for the purely utilitarian form that
coast defences would take if the Government shouldered the whole financial responsibility, and planned the works purely
and simply to keep the sea out."

and simply to keep the sea out."

Earlier, Mr. Brooke remarked that it was sometimes suggested in Parliament that coast protection should become entirely a national responsibility. However, a Royal Commission in 1911, and a committee under the chairmanship of Lord Waverley after the 1953 floods, both decided in favour of the view that coast

protection was a matter in which individual and local and national interests were all concerned, and therefore that the burden of the coast should be distributed between them. "I am sure this is right," said Mr.

Brooke.

It was just over 10 years since the Coast Protection Act came into operation. In that time some 300 coast protection schemes in England and Wales had been put through, at a total cost of £15m. Exchequer grants towards that cost so far totalled about £7m.

TALL BUILDINGS Discussions at Brixton School

Four discussions on tall buildings are to be held this session at Brixton School of Building, Ferndale Road, S.W.4: October 26—Planning in Relation to Tall Buildings (Internal Planning Problems and Buildings (Internal Planning Problems and Town Planning Considerations); November 23—Internal Services in Tall Buildings; February 1—Contractors' Problems in Tall Buildings; March 8—Open Forum with previous lecturers in attendance to answer

questions.

The discussions will begin at 6.45 p.m. and each will be opened by one or more speakers specially experienced in the aspects of the subject under consideration. There will be no charge for admission.

SOUTH WALES CONTRACTORS' GOLFING MEETING

The South Wales and Monmouthshire Civil Engineering Contractors' Golfing Society held an open meeting at the Royal Porthcawl Club recently.

Mr. Clifford Turner, captain of the Society, welcomed visitors, who included representatives from the Ministry of Works, the Ministry of Transport, the Cardiff Association of Building Trades Employers and Associates' Golfing Society, and the Chartered Architects and Surveyors' Golfing Society.

Mr. John Morgan, the president, presented prizes to the following: Morning Competition (foursomes against bogey)—1, D. Blair and R. Pugsley, four up; runners-up—B. J. Dando and B. Phelps. Afternoon Competition (foursomes Stableford)—1, W. Bruce and J. Kilpatrick, 30 points; runners-up—J. Bowen and R. Martin. R. Martin.

CIVILS' LIBRARY OF COMPUTER **PROGRAMMES**

The Institution of Civil Engineers have adopted the suggestion of a Toronto graduate, Mr. Norbert Morgenstern, B.A.Sc. (Toronto), a research assistant in the Department of Civil Engineering at Imperial College, to form a library of computer programmer. puter programmes.

He (among others) made the suggestion last February at the Institution when the Paper, "The Place of Digital Computers in Civil Engineering," was being discussed.

Men and Movements

MR. RICHARD MILES, who retired recently as chairman of Head-Wrightson and Co., Ltd., has been appointed a director and chairman of Joy-Sullivan, Ltd.

Two new promotions have been made by Bristol Plant Hire, Ltd. Mr. R. B. Jones has been appointed local director for South Wales area, and Mr. G. W. Hawkins local director for the Midlands area.

B.T.R. Industries, Ltd., have announced the following new senior staff appointments: Mr. J. A. Hardman becomes general manager, belting division; Mr. D. J. Hodgson, controller of research and Mr. L. W. Rodway to be manager of market research and development.

Mr. G. E. Dix, who joined Massey-Ferguson at the end of 1959, has been appointed general purchasing manager, U.K. Operations. In his new post, Mr. Dix will be responsible for developing and coordinating overall purchasing policies for the separate purchasing activities in the U.K. Operations. He will be succeeded as purchasing manager of Massey-Ferguson's Banner Lane plant by Mr. D. W. Stevens. Mr. W. J. Renton has joined the company as general shipping and traffic manager. He was formerly manager of export order and shipping department with Kelvinator, Ltd.

The managing director of the Cementation group of companies, Mr. C. F. Grundy, left for India at the beginning of this week on a 10-day business tour. He will visit Durgapur in West Bengal and Bombay.

Mr. J. G. Dawson, B.Sc., M.I.Mech.E., has succeeded Mr. V. H. Hopkins as chairman of council of the British Internal Combustion Engine Research Association. Mr. S. J. Wood has been elected vice-chairman.

Mr. John Raymond, chairman and managing director of Stone-Chance, Ltd., a member firm of Stone-Platt Industries, left London recently for New York and Washington to attend the International Conference on lighthouses at Washington. He is also visiting his company's subsidiary, Sumo Pumps, Inc., of which he is president, and some of the larger American manufacturers of telecommunications equipment. Mr. Raymond returns on October 8.

Two new sales representatives, to cover Northern Ireland and the south-west of England, have been appointed by Copperad, Ltd. Mr. M. A. Truran will cover a new area comprising the counties of Cornwall, Devon and Dorset. He joined the building industry in 1948, and went to Copperad after having been branch manager for C. Bryant and Sons, Ltd., Torquay. Mr. R. B. Wilyman, who will be known as the western representative, will be responsible for Gloucestershire, Somerset and Wiltshire. The new representative in Northern Ireland will be Mr. K. Morrow. Other changes are that Mr. D. R. Allen is to share the Yorkshire territory with Mr. H. W. Hobson, his place in the London office being taken by Mr. A. B. Swayne, from the Colnbrook technical department.

Mr. Stanley C. Greatrix has been installed as national president of the Building Surveyors' Institute at the recent annual general meeting. He was national president of the Institute in 1957/58.



J. I. Case Co., Ltd., have announced the appointment of Mr. Trevor Shakeshaft tas area representative in the London and Home Counties area. Mr. Shakeshaft was formerly a representative with Fred Myers, Ltd.

T. SHAKESHAFT

Among passengers embarking on the "Queen Elizabeth" for New York last week was Mr. Frank M. Morris, chairman and managing director of Herbert Morris, Ltd., Loughborough.

Mr. W. M. H. Stevens, A.M.I.Mech.E., M.S.A.E., has been appointed deputy chairman and joint managing director of Firth Cleveland Pumps, Ltd. Mr. Stevens was formerly the technical director of Bowser International, Ltd. Mr. R. W. Hill continues as joint managing director and will control sales activities from the Firth Cleveland group headquarters in London.

Three members of J. C. Bamford (Excavators), Ltd., recently spent a week in Chicago attending the National Machine Tool Exhibition. They are (left to right). Mr. Peter Mayer, production manager; Mr. Reginald Clayton, machine tool setter operator; and Mr. Hubert Elkin, machine



shop foreman. Mr. Clayton was selected after winning a competition in which members of the machine shop were asked to submit an essay on the subject: "Why I am the most suitable member of the machine shop to attend the Machine Tool Exhibition in Chicago, U.S.A."

Mr. G. F. D. Spong, overseas technical representative, Expandite, Ltd., will be leaving London on October 4 for a tour of all Middle East countries. He will be visiting the company's associates and distributors, and will also be studying the application of certain specialised materials under tropical conditions.

The new general works manager of Midland Tar Distillers, Ltd., is Mr. W. F. Dines, who recently joined the board. He succeeds Mr. W. E. Aylwin, who is retiring from the position, but who will remain on the board.

Following the recent death of Miss E. L. Drinkwater, W. W. Drinkwater (Willesden), Ltd., have announced the appointment to the board of Mr. Maurice C. Drinkwater. He joined the company 12 years ago, and in 1954 was appointed London manager.

The appointment of Mr. R. J. Abrahams as the sales director of The Yale and Towne Manufacturing Company's British lock and hardware division, at Willenhall, has been announced. Mr. Abrahams has been the division's general sales manager since he joined Yale and Towne in May last year. Mr. E. A. Venner remains home sales manager, and Mr. H. Marshall, export sales manager.

Two directors of Stewarts and Lloyds have joined the board of their recent acquisition, The Staveley Iron and Chemical Co., Ltd. They are Mr. L. M. T. Castle, managing director, finance and general administration, and Mr. N. C. Macdiarmid, who is also managing director of the Stanton Ironworks Co., Ltd.

Mr. Neil Wates has been appointed to the board of Wates, Ltd. He has been with the company since 1954, and is a director, of the subsidiary, Wates Built Homes, Ltd.

MUNICIPAL

Bexhill B.C. have been recommended to appoint Mr. Arthur Burrell as deputy borough surveyor. Mr. Burrell is at present chief engineering assistant to Hayes and Harlington (Middx.) U.D.C.

Mr. F. W. Blackmore, divisional surveyor with Northamptonshire C.C., has retired after 41 years in local government service.



Representatives from the North and West Riding County Councils, and the building and civil engineering trades in Yorkshire, were the guests of Holdsworth (Yorkshire), Ltd., Whitlock distributors, when they recently travelled by air from Leeds to Great Yeldham to inspect the new range of Whitlock earthmoving equipment. The party is seen at Yeadon Airport, Leeds, prior to take-off

INDUSTRYS' EFFORT TO REDUCE AIR POLLUTION

THE annual conference and exhibition of the National Society for Clean Air opened yesterday in Harrogate with an address by the Parliamentary Secre-tary to the Ministry of Housing and Local Government, Sir Keith Joseph, M.P. Before his address the conference comprising 1,000 delegates from local authorities, national associations, firms, medical men and technologists—was given a civic welcome by the Mayor of Harrogate, Councillor L. Roberts, J.P.

of Harrogate, Councillor L. Roberts, J.P.

Sir Hugh Beaver, who was Chairman of the Government's Committee on Air Pollution set up after the great London smog of 1952, then gave his presidential address. Progress, said Sir Hugh, had not been as rapid as they had hoped, but it was being made. He praised industry for the efforts it was making, often at considerable expense, to reduce air pollution. Thus all the new power stations were virtually smokeless, with very high performance grit arrestment plants and high chimneys—up to 600ft. The iron and steel industry had embarked on a very costly campaign to deal with emissions from ore driers, sinter plants, blast furnaces and the new techniques of steel production. The coking industry had a working party with the Alkali Inspectorate to investigate the problem of gas from the charging of coke ovens. The bottle oven kiln of the Potteries was rapidly giving way to smokeless techniques.

"During the past few years." said Sir

"During the past few years," said Sir Hugh, "industry has done much and had already spent or allocated several millions of pounds to clean air measures.

Domestic Problem

On the domestic smoke problem Sir Hugh said:

"There may well in due course be developed domestic heating appliances which can safely use many of our raw coals without nuisance and without skilled, or at least without skilful, and continuous attention. But these have not yet been developed. So if we believe in clean air, if we believe that too long have we subjected ourselves and our children and our aged to the unquestioned and lethal dangers of foul air, we must accept that there must in due course be some control over all domestic firing appliances wherever people are thickly congregated; or over the fuel used—or both.

"In industry it is as we know perfectly possible to use in nearly all boilers and furnaces the poorest of coals so as reasonably to fall within the Act. This is not so and probably never can be the case with the domestic hearth." There may well in due course be de

LESS WORK FOR PRIVATE ARCHITECTS

An R.I.B.A. inquiry shows that the value of new work commissioned of private architects in the second quarter of 1960 fell by one quarter from the level in the first three months of the year, but it was still one fifth more than a year earlier.

The greatest proportionate fall was in private housing and in new work coming to the small firms with a staff of five or fewer.

"MUNICIPAL ENGINEERING SERVICES"

At the first general meeting of the At the first general meeting of the current session of the Institution of Plant Engineers, Mr. A. F. Holt, Croydon borough engineer and surveyor, will present a Paper entitled "Municipal Engineering Services." neering Services.

The meeting will be held on November I at the Royal Society of Arts, John Adam Street, London, W.C.2, at 7 p.m.

ABERFORD BY-PASS CONTRACT AUTHORISED

A S reported briefly last week, Mr. Ernest Marples, Minister of Transport, has now authorised the letting of a contract to Dowsett Engineering Construction Co., Ltd., for the building of Aberford By-pass in the West Riding of Yorkshire, at a cost of 6600 707 of £690,707

The by-pass forms part of the Ministry's plan for modernising the Great North Road between London and Newcastle upon Tyne. It will run to the east of Aberford for just over 2½ miles, and will have dual for just over 21 miles, and will nave dual 24ft. wide carriageways, a 15ft. central reservation (widening to 30ft. at junctions) and two 12ft. grass verges. Eventually the new road will link the nearly completed Micklefield By-pass with the trunk road between Aberford and Wetherby, which is scheduled for improvement.

Included in the contract is a flyover junction at Hook Moor crossroads, connecting with the Wakefield Road (A.642) and the Castleford Road (A.656), and a bridge to carry the by-pass over Lotherton

The scheme has been prepared on behalf of the Minister by the West Riding of Yorkshire County Council (county surveyor, Col. S. Maynard Lovell, O.B.E., T.D., A.M. I. C. E., A. M. I. Mun. E., M.Inst.H.E.), and the work is expected to be finished by August, 1962.

DROUGHT THREATENED FACTORIES' CLOSE-DOWN

Measures taken to cope with the 1959 drought in the Billingham group of I.C.I. chemical factories on North Tees-side were chemical factories on North Tees-side were described at the Institution of Civil Engineers this week in a Paper, "The Utilisation and Conservation of Water in the Chemical Industry," by Mr. J. A. Cooper (design chemist) and Mr. L. G. Smith (design engineer for water and drainage). "Before the drought," the authors stated, "normal deily against the stated."

"normal daily consumption was about 7,000,000 gallons of town water, about half that amount of medium-quality water from local streams and boreholes, and 230,000,000 gallons of estuarine water. By late August, industrial plants on Tees-side were warned that their water consumption might be reduced to 10 per cent, of normal for several weeks with a further threat of being shut down if the rains did not come in time. As it happened, the drought ended before a total disruption of industry took place."

The authors said that the I.C.I. made a drastic reduction of about 60 per cent. in consumption of high-grade town water during the drought, partly by economising and partly by increasing the use of medium-grade water, both at considerable expense. The overall saving in clean-water consumption was about 32 per cent.

Methods adopted to augment supplies included pumping from a large local pond and colliery, sinking 12in, boreholes to 500ft, in a fortnight, and pumping water across country in plastic pipelines obtained from the Civil Defence organisation.

FLATS FROM FACTORIES

A new feature of building construction in Holland is the complete factory production of whole flats ready for rapid assembly on site. In "Building Matters" on October 11, (B.B.C. Network Three), the building team (C. Crichton and K. Pearce, builders, and H. Kaylor, consulting engineer) will discuss this development with G. Goulden deputy director of ment with G. Goulden, deputy director of the Building Centre, who has recently returned from Rotterdam.

Another guest of the team will be P. Trench, director of the N.F.B.T.E., who present a report on housing in the

INSURANCE ARRANGEMENTS FOR COUNCIL EMPLOYEES

MR. HENRY BROOKE, Minister of Housing and Local Government, after consultation with the associations of local authorities and the staff assoof local authorities and the stair asso-ciations principally concerned, has announced levels of pay above which it is proposed that superannuable local government employees should be con-tracted out of the Government's new graduated national insurance scheme. It is proposed that employees whose pay is at or below these levels will participate in the scheme.

In order to secure uniform arrangements throughout the country, the Minister has made regulations empowering him to act in the place of the employers and apply for certificates of non-participation in respect of employees subject to the Local Government Superannuation Acts, 1937 to 1953, or to local Act superannuation schemes, who are to be contracted out.

The regulations, the National Insurance (Non-participation — Local Government Staffs) Regulations, 1960, came into opera-

tion on October 1.

A circular letter to local authorities says: "In the course of the consultations it was agreed that superannuable employees whose pay exceeded a specified level should be contracted out of the graduated scheme and that the remainder should participate. It was also accepted that it would be reasonable to specify a lower level of pay for this purpose for women employees than that specified for men.

"After carefully considering the relevant factors and the views put forward by representative bodies of employers and representative bodies of the Minister came to the conrepresentative bodies of employers and employees, the Minister came to the conclusion that he should accept the recommendation of the associations of local authorities who employ the great majority of the staff covered by the local government superannuation scheme, that the level of pay which should determine whether on the assertantial employer participates. not a superannuable employee participates in the graduated scheme should be taken at £13 a week for men and £12 for women. He also accepts that it would be desirable to have arrangements for securing that employees should not frequently change from participation to non-participation on changes in pay, and provision to this end is included in the detailed proposals set out in the form of notice to employees. . . . An application for the necessary certificate of non-participation will in due course be made to the Registrar of Non-participating

WHEN HIGH BUILDING DENSITIES ARE ACCEPTABLE

At particular points where development or redevelopment was due, densities materially above the average could be accepted without prejudice to the general development plan for a whole borough or county, said the Minister of Housing and Local Government, Mr. Henry Brooke, at Southards recently.

Local Government, Mr. Henry Brooke, at Southgate recently.

The Minister, who was opening the Borough Council's 13-storey flats (The Contract Journal. September 29), said: "We need to be open-minded about densities, particularly on smallish sites ripe for development, though we must also be specially careful to make sure that any higher density scheme is a really good one from the planning standpoint."

ENGINEERING WORKERS' WAGE CLAIM

The Confederation of Shipbuilding and Engineering Unions have submitted a wage claim for another £1 per week. The employers are expected to give their reply in the middle of November.

Talking of Safety

"DRAGEE"

I HAD a quick tour round the Factory Lane site then went back to Bill Kennedy's office to await his return from the meeting. Pete brought me a mug of tea—a large shiny mug, distinctly off-white, and bearing a telltale smear of red across the rim.

"Been entertaining?" I asked casually, looking out of the window. A broad, homely female back was just moving past the time office, out on to the main road. Pete's eyes followed my gaze, then he

the time office, out on to the main road. Pete's eyes followed my gaze, then he looked at the tea mug.

"Ah—proper Sherlock 'Olmes you are, guv." he grinned. "That's me old woman; comes here every pay-day, three o'clock sharp. Collars the packet—the lot. I get what's left, see? Cor sufferin'!"

"She treats you so badly you offer her a cup of tea every time she comes?"

"That's the idea. But she don't care

a cup of tea every time she comes?"

"That's the idea. But she don't care for our tea that much."

"Then why does she drink the stuff? Nobody else would if there was anything better to be had."

Pete stiffened. "I know that," he said, a trifle coldly. "But the first time she came—six months ago it was—I give her a cup because the weather was cold, and after she'd finished she said 'that's the best cup o' cocoa I've had for a long time.' And I've never had the heart to tell her different!"

I stared at him hard, but he didn't bat

different!"

I stared at him hard, but he didn't bat an eye, then I gave him a cigarette and lit one myself.

"Look," I said, "now that the long day's work is nearly ended, we had better go and inspect the messroom—particularly the washing-up department."

Pete led the way across a rough piece of ground, thick with weeds and strewn with debris, to a long low hut against the boundary wall. As Pete felt for his key he said:

we've just moved this hut over here. A few months after it was first put up they made a temporary road across the site—right through me broom cupboard and sink—and now we're in the flippin' jungle."

"How do the men get to the door?"

jungle."

"How do the men get to the door?" I asked in surprise. "Isn't there a path?"

Pete gave a hollow laugh. "We cleared a bit of ground when we moved here, but the weeds come up quicker than you can knock 'em down."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

I moved a piece of concrete with my foot. "I'll have a word with Mr. Kennedy," I said. "These bricks and things must be cleared away before someone breaks an ankle, and we'll have to have a proper path made. That's a legal obligation. When people are working on our premises we've got to see that they have a proper path made. That's a legal obligation. When people are working on our premises we've got to see that they can move about safely. Now let's have a look inside."

Pete unlocked the door and we walked into the canteen. As I had expected, the place was reasonably clean and tidy. Chairs were neatly stacked on the scrubbed tables and obviously the floor had just

tables and obviously the floor had just been swept.

"We're getting a bit tight for space," said Pete, "but we've another hut coming next week. I'll need a lad, then," he added, "so you'd better tell Mr. Kennedy and save me a rumpus."

"How many men do you have in here?"

I asked. "Sixty-three at present, including my-self."

self."

I took a 6ft, tape out of my pocket and made a few measurements. "At the official rate of 1ft. 8in. per person, that means standing room only for some, unless they're packed tight," I said.

"Well, some of them sit out of doors when it's fine," said Pete, "but it's a bit of a crush when they're all inside."

"I like the plastic table tops," I said approvingly; "and I'm glad to see you've got some decent seats. These are an improvement on the usual humane killers."

Pete sported "In my day we set on."

provement on the usual humane killers."

Pete snorted. "In my day we sat on a plank or a heap of bricks, not on flippin' front parlour chairs."

We walked into Pete's pantry. There was an ancient but workable gas cooker in one corner, and a large sink near the window. An assortment of cans, mugs, cups and even saucers were piled on a shelf. There was no running hot water shelf. There was no running hot water for cleaning purposes, and Pete had to manage with a bucket on the gas ring. Manage with a bucket on the gas ring.

A few towels hung on a line. Clearly they hadn't had the full treatment prescribed by the washday wizards of Commercial T.V., but they would pass in the twilight.

"Thanks a lot, Pete," I said as I went

"Thanks a lot, Pete," I said as I went out.
"Sorry about the cup, guv." said Pete.
"Must've got through the wash somehow. It's that ruddy kissproof stuff, that's what it is . . . Cor," he added with a chuckle, "the old girl must be going gay!"

I was getting ready to leave the site when Bill Kennedy came back from his meeting.

meeting.
"Sorry I've been so long," he said.
"Don't apologise. I've just had an

interesting discussion with Pete in his glory hole. I've jotted down a few items which seem to need attention. The paper's

which seem to need attention. The paper's on your desk."

Kennedy sighed.
"I know I should be grateful," he said, "but I do sometimes think you abuse my hospitality."

MORE FACTS ABOUT **BRITAIN'S ROADS**

Britain's roads continue to be the most crowded in the world. This is one of the hundreds of facts in the 1960 edition of "Basic Road Statistics," published last week by the British Road Federation.

week by the British Road Federation.

On the most recent count, we have 30.9 vehicles per mile of road, 3.3 more than West Germany, and 10.6 more than the United States. These figures cover four—or more—wheeled vehicles only. Add motor cycles and others and the British figure jumps to 44.8—that is one for every 40yd, of road, street and country lane.

How does revenue from motor taxation ompare with the amount of money spent on the roads? At £589m, in 1959/60—11.1 per cent, of national revenue—motor taxation receipts are well over four times what they were 10 years ago. And more than treble current road expenditure for all nurses all purposes.

Latest confirmed figures of Government Latest confirmed figures of Government expenditure on the road programme are those for 1958/59. £47,100,000 was actually spent although the Civil Estimate vote by Parliament that year was for £52,900,000. It is estimated that by March 1961 the value of work in progress on road modernisation schemes started but not completed will be £169,779,000.

completed will be £169,779,000.

Among other points are these three:
(a) New vehicle registrations soared in
1959 to the highest-ever total of 1,250,000

—two a minute throughout the year; (b)
total cost of road accidents to the community rose by £29m, to £219m, in 1959;
(c) Britain's roads are the responsibility,
one way or another, of no less than 1,285
separate highway authorities,

"Basic Pood Statistics" is available from

"Basic Road Statistics" is available from the Federation at 26 Manchester Square, London, W.1. Price 1s. plus 5d. postage.

INSTITUTE OF BUILDERS Establishment of Branches

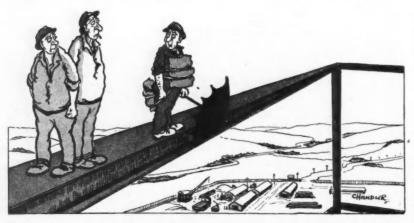
The inaugural meeting of the first branch of the Institute of Builders, the Midlands Branch, will be held at the Grand Hotel, Birmingham, on Friday, October 7, at 6.30 p.m. The President of the Institute, Mr. G. O. Swayne, O.B.E., F.I.O.B., will be in the Chair.

Membership of the branch will be available to all classes of member resident in the area of the five counties, Hereford, Shropshire, Stafford, Warwick, and Worcester.

This meeting will mark the initial step in the implementation of a "master plan" adopted by the Council of the Institute for the ultimate establishment of 23 branches (18 in England, one in Wales, two in Scotland, one in Northern Ireland and one in the Irish Republic).

FOUNDATION ENGINEERING COURSE

An evening course of eight weekly lectures on "Foundation Engineering" is to be held at the new Civil Engineering Building, University of Leeds, on Mondays from October 24. The lecturer is Mr. R. D. Mackey, B.Sc., A.M.I.C.E., and the course will be under the supervision of Prof. R. H. Evans, C.B.E. Applications to attend the course, for which the fee is £3 10s., should be made to the Department of Adult Education and Extra-Mural Studies, The University, Leeds, 2.



"One never knows!"

International Construction

11-STOREY TORONTO OFFICES BUILT IN TWO SECTIONS

World's Largest Span Claim

A NEW landmark in Toronto was recently completed by Anglin Norcross, Canadian associates of Holland & Hannen and Cubitts, Ltd. It is the 11-storey black and silver office building for Union Carbide Canada, Ltd., built at a cost of £1,800,000.

The building is believed to have the largest span of any office building in the world, with all interior columns eliminated to allow interior dimensions of 210ft. by 61ft.

Exterior projecting columns are faced.

61ft.
Exterior projecting columns are faced with black granite and the building incorporates the largest amount of stainless steel curtain wall construction in Canada. An estimated 78 tons of steel curtain wall has been used covering

steel curtain wall has been used, covering an area of over 60,000 sq. ft.

The building was constructed in two sections—the main structure, and the elevator tower to the structure, and the elevator tower to the rear. It occupies an entire block, with a car park for 235 cars. Some 450 Union Carbide employees work in the new building on the upper seven floors.

Movable metal partitions are used throughout the interior except on the executive floor which

executive floor which has a permanent type masonry wall finished in plaster and wood pannelling. The ceiling of the executive offices will be completely luminous.

The main foyer has walls of granite and glass mosaic, terrazzo floors and indirect lighting.

Air conditioning equipment has been installed for all parts of the building. On each floor condi-tioned air enters from two sources; in perimeter offices from window induction units a foot above floor level, and in interior offices through the perforated ceilings.

There are four main lifts and a service it. A staff cafeteria can cater for 185

lift. A staff cafeteria can cater for 185 people at a sitting.

The architects were Shore and Moffat, Toronto, and the consulting mechanical engineers were Charles S. Leopold Engineers Inc., Philadelphia, U.S.A. Main contractors were Anglin-Norcross (Ontaria), Ltd., Toronto (superstructure), and Perini, Ltd., Toronto (substructure). Curtain wall fabricators were Macotta Co. of Canada, Ltd., Toronto.



The completed building

NIGERIA'S NEW £4M. CEMENT WORKS

WITH the conferment of independence W on Nigeria comes news of that country's biggest industrial project yet, the £4m. cement works now being erected by The West African Portland Cement Co., Ltd., at Ewekoro, 40 miles north of

Lagos.
Production is expected to commence to-Production is expected to commence towards the end of October and will be at the rate of 200,000 tons a year. The most modern cement manufacturing equipment available is being installed at the factory which is so planned as to permit of expansion when considered desirable. The three partners in the scheme are The Associated Portland Cement Manufacturers, Ltd., Western Nigeria Development Corporation, and The United Africa Co., Ltd., an association of local and overseas capital.

seas capital.

The main features of the works will be:

the 500-h.p. hammer crusher, with a crushing capacity of 200 tons of limestone an hour; the kiln, 200ft. long, 12ft. 6in. in diameter, weighing 600 tons, which will be oil-fired; the 150ft. high chimney; two silos, 90ft. high and 35ft. in diameter, with a storage capacity of 2,500 tons of cement each

£3M. AUCKLAND HOTEL PLAN

An inner-city site for a £3m, tourist An inner-city site for a £3m. tourist hotel in Auckland, New Zealand, has been purchased by the Chevron-Hilton organisation for £300,000. It is planned to build a 23-storey building providing 600 to 700 bedrooms. The organisation is negotiating to buy another property, also in the innercity area, to develop for the tourist trade.

CONSTRUCTION'S "EXPORT DRIVE"

To the Editor of "The Contract Journal."

Sir,—In view of the suggestion contained in your Editorial of September 22, that the Export Group would be doing a useful job if it examined the possibilities, perhaps in conjunction with the Export Credits Guarantee Department, of encouraging and helping more contracting firms to build overseas, I think I should let you know what the Group has been doing.

Following the meeting addressed by the Following the meeting addressed by the Prime Minister on July 18, when he appealed for increased exports, I wrote on August 3 to some 150 of the mediumsized and larger building and civil engineering companies who do not at present work overseas, in an effort to interest them in overseas constructional works and assured them that the Group would be willing to do what it could to help them.

To meet the point that the Group should To meet the point that the Group should co-operate with the Export Credits Guarantee Department, I am pleased to report that the Group has worked closely with the Department over a number of years and has negotiated with them a special Constructional Works Guarantee to meet the particular needs of our industry. Since that Guarantee was agreed. try. Since that Guarantee was agreed, the value of contracts for which Guaran-tees have been issued has amounted to £26m., while applications in the pipeline amount to £96m.

amount to 496m.

While the Group has the most friendly relations with the Department and Her Majesty's Government, it is no secret that, despite the balance of payments difficulties, we consider that more could and should be done to assist our industry by the provision of development loans for overseas works and we are continuing to press this point of view. press this point of view.

The benefits of what we have achieved and anything we may achieve in the future are and will be available to those who have not done overseas constructional work hitherto and to non-members as well as members of the Group.

May I say that I welcome and entirely May I say that I welcome and entirely agree with your comment, as we think our industry, as the spearhead of other British trading interests, has a vital part to play in securing export contracts for capital goods and services which, apart from the contribution they make to the United Kingdom's economy, are also of considerable reaction value. considerable prestige value.

Yours, etc.,

E. C. BECK,

Chairman of Council.

The Export Group for the Constructional Industries.

£150,000 SCOTTISH ROAD **IMPROVEMENT**

For the re-construction of almost three For the re-construction of almost three miles of the Tarbert-Rodel road (A.859), immediately south of Tarbert, the Secretary of State for Scotland has approved a grant of 100 per cent. This scheme, which is estimated to cost about £150,000, forms part of the Crofters Counties programme and will continue the rebuilding of A.859 on Harris under that programme.

Of A.859 on Harris under that programme.

Under the scheme now approved an 11ft. carriageway will be provided with passing places 18ft. wide and spaced about 12 per mile. At sharp bends and on steep gradients the carriageway will be widened to 18ft. The road will be reconstructed generally on its existing line but at four points short diversions will be built to give a better alignment. A new bridge will be built over the River Horsaclett.

The work will be carried out by William

The work will be carried out by William Tawse, Ltd., Inverness, as contractors to the County Council, who have prepared the scheme and will supervise its execu-

FOR THE DIARY

Convention on Parking arranged by the Institution of Municipal Engineers at Central

Maintenant Department and Central Hall, London, 10 a.m.
Meeting of the London Branch of the Contractors' Mechanical Plant Engineers at Red House Hotel, Redbridge, 7.30 p.m. Open Forum.

Meeting of the Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.I. "Lessons Learned on the Design, Construction and Maintenance of Motorways—from the County Surveyor's Angle," by H. Bowdler, Kent county surveyor.

Building Trades Exhibition, City Hall, Deansgate. Manchester, Oct. 11-22.
Annual dinner of the Contractors' Plant Association, Dorchester Hotel, London. 7.30 p.m.

7.30 p.m. Meeting of the Birmingham branch of the Institution of Plant Engineers, Hotel Leofric, Coventry, at 7.30 p.m. Talk on "Modern Air Compressors and Equipment." The Institution of Civil Engineers, Great George Street, Westminster, S.W.1. 5.30 p.m. "The Fire Resistance of Prestressed Concrete Beams," by L. A. Ashton and S. C. C.

South Western Branch of the Institution of Highway Engineers. Meeting at Fortt's of Milsom Street, Bath, 12.15 p.m., at the invitation of the Bituminous Roads Development Group.

Oct. 13

Twenty-first national conference of the Council for the Preservation of Rural England, Pavilion, Weymouth. Oct. 13-15. England, Pavilion, Weymouth. Oct. 13-15. The Institution of Civil Engineers, Great George Street, Westminster, S.W.I. Traffic Engineering Study Group's information discussion—"Economics and Efficient Traffic Surveys"—introduced by F. Garwood.

Annual dinner and dance of the Institute of Quantity Surveyors at the Trocadero Restaurant, London, W.1.

Joint meeting of the Southern District of the Institution of Municipal Engineers with the Institution of Civil Engineers (South Western) at the Military College of Science. Shrivenham, Berks.

National conference of the Town and Country Planning Association, Church House, Great Smith Street, London, S.W.l. "Planning and the Motor Vehicle." Oct. 18-19.

The Institution of Civil Engineers, Grea George Street, Westminster, S.W.I. 5.30 p.m "Zambesi Hydro-electric Development at Kariba: First Stage," by Sir Duncan Anderson, T. A. L. Paton and C. L. Blackburn.

Oct. 19.

Annual general meeting of the Institute of Quantity Surveyors at 6.30 p.m.

Meeting of the Reinforced Concrete Association at 11 Upper Belgrave Street, London, S.W.I. at 6 p.m. "Lift Slab Design and Construction," by F. R. Benson, B.Sc.(Eng.), A.M.I.C.E.

Meeting of the Yorkshire branch of the Contractors' Mechanical Plant Engineers. Station Hotel, York. 7.30 p.m. Lecture on "Plant Maintenance."

Annual dinner of the Society of Engineers at the House of Commons.

Meeting of the Midland branch of the Contractors' Mechanical Plant Engineers, the Wilson Arms, Knowle. 7,30 p.m. B. D. Richardson, Lecturer in the Department of Civil Engineering, University of Birmingham, on "Traffic Engineering."

The Institution of Civil Engineers, Great George Street, Westminster, S.W.1. 5.30 p.m. "The Application of Work Study to Local Authority Problems," by M. E. Habershon.

The Institution of Civil Engineers, Great George Street, Westminster, S.W.1. Traffic Engineering Study Group's informal dis-cussion—"Dartford Tunnel Origin and Destination Survey"—introduced by F. A. Rayfield.

Meeting of the Metropolitan and Southern branch of the Institute of Sewage Purification, Friends House, Euston Road, London, N.W.I. 6.30 p.m. Paper "The Biological Treatment of Chemical Wastes," by I. S. Wilson and Miss E. Harrison.

Oct. 28

ct. 28
Annual dinner and dance of the MidSouthern branch of the Contractors'
Mechanical Plant Engineers, Red Lion
Hotel, Henley-on-Thames. 7:30 p.m.
Autumn meeting of the Scottish Branch of
the Institution of Municipal Engineers at
Kirkcaldy. Oct. 28-29.

Annual dinner of the British Road Tar Association, Grosvenor House, London, W.1. 7.30 p.m.

The Institution of Civil Engineers, Great George Street, Westminster, S.W.1, 5.30 p.m. Presidential address by Sir Herbert Manzoni,

Annual dinner and dance of the Federation of Registered House-Builders at the May Fair Hotel, London, W.l.

Nov. 3

House-Builders' Conference, organised by the Federation of Registered House-Builders, at the Connaught Rooms, London, W.C.2.

Public Works and Municipal Services Congress and Exhibition, Olympia, London, Nov. 14-19.

BOOK REVIEWS

Reinforced Concrete Piling and Piled Structures, by F. E. Wentworth-Sheilds, W. S. Gray and H. W. Evans. Published by Concrete Publications, Ltd., London. 149 pages. Price 18s., by post 19s.; in Canada and U.S.A. \$4.

The second edition of this book contains The second edition of this book contains in a concise form much information for designers, constructional engineers, and students concerned with the manufacture, driving, and design of precast concrete piles, the testing of soils, and the design of piled structures. There are 116 illustrations and 17 tables. The design data is in accordance with the latest British codes of practice.

Extensive revisions have been made to

of practice.

Extensive revisions have been made to the previous edition. Subjects which are additional, or have been amplified, include loading tests, the calculation of bearing capacities of piles, the design of sheet-pile retaining walls, and specification and quantities. The stresses occurring during driving are dealt with in detail. Methods of designing pile-caps for single piles and groups of piles are given with numerical examples. The descriptions, working drawings, and illustrations of works in the course of construction justify the addition to the title of "Piled Structures."

Radioactive and Disposal. General Editor: John C. Collins, B.Sc., M.S.E., A.M.I.C.E. Publishers: E. and F. N. Spon, Ltd., 22 Henrietta Street, London, W.C.2. Price 55s. 239pp.

With the increasing amount of radio-active waste from the growing number of nuclear power stations and the greater employment of radioisotopes in industry, this book constitutes an important contri-bution to the field of wastes engineering. The scope of the volume may be adequately described by its chapter head-ings, which are as follow: The Nature of

Radioactivity; The Sources of Radioactive Wastes; The Hazards of Radiation; The Measurement of Radioactivity; The Law on Radioactive Wastes in Great Britain; The Treatment of Radioactive Liquid Effluents; Biological Concentration of Radioactivity and its Application to the Treatment of Liquid Effluents; The Disposal of Radioactive Elements; The Disposal of Radioactive Elements; The Disposal of Radioactive Effluent to the Atmosphere.

With its comprehensive coverage of the implications of radioactivity reagrding

With its comprehensive coverage of the implications of radioactivity regarding water supply and waste water disposal, such a book will prove of both value and interest to municipal, civil and chemical engineers, and all who are in any way connected with water supply or the disposal of industrial and domestic wastes.

Formwork to Concrete, by C. K. Austin. Publishers: Cleager-Hulme Press, Ltd., 31 Wright's Lane, London, W.8. Price 30s. 283pp.

Designed to be both a quick reference book for the site and a suitable text-book for the student, this volume deals not only with straight timber forms, but includes the application of plywood, steel, tubular steel, composition boards, plastic facings, and the propagation

steel, composition boards, plastic facings, and the preparation of mould boxes for precast work.

The text is liberally sprinkled with clear, simple sketches, which in the main have been successfully arranged to face the appropriate passage. Other features, incidental to the main purpose of the book, include suggestions on ways to minimise include suggestions on ways to minimise blunting of tools and hints on planning and

or tools and hints on planning and economic methods of working.

Among the many types of concrete formwork to which chapters are devoted are moving forms to walls and silos; continuously sliding forms; chimney forms; rib floors; casings to structural steel; forms for conduits and culverts; and bridge centring.

NEWTON CHAMBERS/KOEHRING SALES AGREEMENT

Details are announced of the plant to be sold under the recent agreement be-tween the Newton Chambers Group and the Koehring Company of Milwaukee.

Under this agreement, NCK-Rapier, Ltd., Victoria Street, London, S.W.I, become 32 Victoria Street, London, S.W.I, become exclusive selling agents for the Koehring Company in the eastern hemisphere, excluding Japan. In addition to the Koehring excavator-crane models built under licence by Newton Chambers at Thorncliffe. Sheffield, NCK-Rapier will now sell Koehring cranes and other equipment built in the U.S.A. but not yet made in England.

The new list comprises principally truck crane models 330 lifting 60,000lb., 445 lifting 90,000lb., 555 lifting 110,000lb. and cruiser crane models 218 lifting 36,000lb., and the 305 lifting 50,000lb.

Two other main models on the list are the 330 Sprawler which will lift 60,000lb., and the model 805 Crawler, which has a shovel bucket capacity of 2 cu. yd, and can be rigged as a dragline, grab crane or lift crane, with a crane capacity of 104,200lb.

One item in the 205 model range not built by Newton Chambers but which can be supplied by Koehring is the Railaid, a rail carriage for the 205 model. Outside the field of excavators and cranes, NCK-Rapier will sell Koehring's Mudjack con-crete maintenance machines and Kamo drilling tools.

WHERE ARE THE HOUSES TO GO?

With reference to our recent report on Mr. Max Lock's Paper "Where are the Houses to Go?", the figure of 80 persons to the acre should, of course, have read

Trade Section

FOUR-WHEEL DRIVE MERTON FRONTLOADER 65A NOW IN PRODUCTION

THE first of a new range of fourwheel drive loading shovels is now in production, announce Merton Engi-neering Co., Ltd., Faggs Road, Feltham,

Based on the two-wheel drive Front-Based on the two-wheel drive Front-loader 59 this new model, known as the Frontloader 65A, incorporates the main design features of that machine, i.e., front-mounted driver's position; semi-automatic hydraulic controls; 45 degree bucket crowd angle; 10ft. 8in. clear discharge differential, crown and pinion spiral bevel primary reduction and final planetary re-duction at the hubs. Steering of the rear wheels is power-assisted, through a heavy duty Marles cam and double roller type steering box.

Hydraulic braking is of the internal expanding shoe type with Hydrovac servo assistance. Wheels are fitted with 12.00 x 24 8-ply earthmover tyres with 13.00 x 24 tyres as optional.

All hydraulic rams are double-acting and



Frontloader 65A

height (12ft. 9in. under hinge pin); maximum reach of 4ft. 10in.

The power unit of the new Frontloader is the Fordson Major four-cylinder diesel engine which at 2,250 r.p.m. develops 61.5 b.h.p. The drive is transmitted to the four equal-size driving wheels through a single-stage 3:1 stall ratio hydraulic torque converter and full power-shift epicyclic gear train.

Two forward and one reverse speeds are provided giving 0.4.8, 0-10.5 and 0-5.3 m.p.h., respectively.

m.p.h., respectively.

The driving axles have a four pinion

are controlled through a valve which has

are controlled through a valve which has detent positions to give semi-automatic "raise" and "float" for faster working. The lifting capacity at safe working load is 4,000lb, and the maximum crowd or "pry-out" force is 10,000lb.

The standard bucket is 7ft. 1½in. wide to cover the full width of the machine and has a S.A.E. rated capacity of 1½ cu. yd., (or S.A.E. struck capacity of 1½ cu. yd.). It is reinforced with doubling plates and manganese steel wearing strips. Smaller or larger capacity buckets are also available for very heavy or lighter materials.

EXHAUST-OPERATED CLEANING AND FLAME GUN

A CLEANING gun which can be operated A from the exhaust pipe of any vehicle, petrol or diesel, with an engine of more than 2,000 c.c., is now being marketed in this country by Opancol, Ltd., 20-21 Tooks Court, Cursitor Street, London, E.C.4, who are also the sole concessionaire for Western Europe.

Western Europe.

Of Canadian origin, but to be known as the Opancol Kleen Gun in this country, the equipment consists of a threaded tapered attachment which can be fitted to any exhaust; 14ft. of stainless steel flexible piping; a length of special neoprene suction hose; and an emulsifying nozzle. The exhaust gases are utilised, in conjunction with a cleaning solution of water and liquid detergent to provide a jet of high-pressure. detergent, to provide a jet of high-pressure vapour which will remove hard grease, grime and mud.

By use of a simple attachment, the gun can be converted to a flame gun operating at 1,200 deg. F., the flame jet being adjustable from 2ft. to 12ft.

No moving parts are contained within the equipment, which can be assembled and working in about three minutes. The price, without extras, is £39 10s.

SKID-MOUNTED FIBREGLASS CARAVAN

A skid-mounted caravan unit with a fibreglass shell capable of being carried on a self-loading two-wheeled float has been introduced by Scottorn, Ltd., Victor Works, Kingston Road, New Malden, Surrey.

The caravan itself is a fibreglass shell which is composed of eight moulded sections which are bonded and bolted together. This gives a flexible unit strengthened by the ribs formed by the joining together of the flanges of the moulded sections.

moulded sections.

The self-loading float which is constructed on the lines of the company's Fezzan range of trailers, has a 1-ton winch mounted under the chassis by which means the skid-mounted unit is winched on to the trailer. This operation requires, both for loading and off-loading, only two men and it is claimed as feasible that, in an emergency, one man could carry out the loading on his own. The trailer, after being used for transporting the caravan unit can be used for normal transportation purposes, provision having been made for purposes, provision having been made for the use of stake sides; the load carrying capacity of the trailer is 1½ tons.

BIG ORDER FOLLOWS DEMONSTRATION

DURING their recent "open D house" week, Whitlock Bros., Ltd., received well over 1,000 guests who witnessed demonstrations of the new range of Whitlock earthmoving equipment and toured new extensions to the Great Yeldham works.

Following one of demonstrations, which indemonstrations, while in included the latest Dinkum Model "60" and "66" and the new dumper D.D."70", Whitlock received an order valued at £250,000 from William R. Selwood, Ltd., one of their distributors. The photograph shows, left to right, Mr. A. Carleton Whitlock receiving the order from Mr. William. R. Selwood.



TARMAC REORGANISATION

As from October 1, all the roadstone and related surfacing activities of the Tarmac Group, including those of Tarslag, Ltd., are carried out by Tarmac Roadstone, Ltd., under the direction of Mr. R. G. Martin, managing director.

The head office of the company con-

The head office of the company continues to be at Ettingshall, Wolverhampton, but in the interests of closer local control the company now operate through three main divisions.

three main divisions.

The Northern Division is based upon Stockton-on-Tees under Mr. S. W. Sangwin, director and general manager. The Central Division is based upon Ettingshall, under Mr. G. R. Baxter, director and general manager. Rowley Regis Granite Quarries, Ltd., which is a subsidiary of Tarmac Roadstone, Ltd., operates as part of the Central Division. The Southern Division, which takes over all the trading activities of Tarmac (Southern), Ltd., is based upon London under Mr. J. B. F. Earle, director and general manager. Tarmac (South Wales), Ltd., a subsidiary of Tarmac Roadstone, Ltd., continues to operate in South Wales and the county of Dorset as part of its Southern Division.

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London,

TEC Construction, Ltd., 30 Forster Road, Beckenham, Kent. £100. Directors: Ernest C. Trendle and Doreen E. Trendle, 30 Forster Road, Beckenham, Kent.
Peter Proctor (Builders), Ltd., 94 Vale Road, Sheffield, 3. £500. Directors: Peter Proctor and Mrs. E. Proctor, 94 Vale Road, Shefield, 3. £500. Directors: Peter Proctor and Mrs. E. Proctor, 94 Vale Road, Shefield, 3. Lela Builders, Ltd., 5 Westhead Chambers, George Street, Staines, Middx. £1,000. Directors: Bryn Jones, 78 Lela Avenue, Hounslow, Middx; Lewis F. Hall, 37 Lela "anue, Hounslow, Middx; Mostyn E. Jones and George Florey.
A.C.B. (Contractors) Plant Co., Ltd., off Moor Lane, Chessington, Surrey, manufacturers of and dealers in machinery, etc. £100. Pirectors: Peter S. Harris, 7 Westbourne House, Mount Park Road, Harrow, Felix S. Chapman, 5 Send Marsh Lane, Ripley, Surrey. L. and J. Ford (Builders), Ltd., 30 Park Lane, Waltham Cross, Herts. £1,000. Directors: Leslie G. G. Ford, Glen Dale, Berrow Lane. Oheshunt, Herts; Joseph Ford, 30 Park Lane, Waltham Cross, Herts. R. H. Stephenson and Co. (Builders), Ltd., 47 Queen Street, Exeter. £1,000. Directors: Kathleen A. Weaver, 6 Raleigh Road, Exeter; Robert H. Stephenson, 70 Rifford Road, Exeter.
T. E. Wright and Son (Contractors), Ltd.,

A vicen's ricel, Exeter. Enion. Directors: Kathleen A. Weaver, 6 Raleigh Road, Exeter: Robert H. Stephenson, 70 Rifford Road, Exeter.

T. E. Wright and Son (Contractors), Ltd., 71 Saltergate, Chesterfield, building contractors, etc. £1,000. Directors: Ronald G. E. Wright, 63 Mansfield Road, Hasland, Chesterfield, Bernard T. Wright, 89 Keswick Drive, Newbold, Chesterfield.

Wetheralds (London), Ltd., 8 Otley Road, Leeds, 6, painters and decorators, etc. £10,000. Directors: Edward Wetherald, 2 Spenithorne Avenue, Otley Old Road, Leeds (managing director); Edith Wetherald, 44 Otley Old Road, Leeds: Percival Wetherald, Park View, Zeathley, near Leeds.

E. and M. Williams, Ltd., 136 Ramillies Road, Sidcup, Kent, builders. £1,000. Directors: Ernest H. Williams, Margaret Williams and Charles P. Duckett, all of 136 Ramillies Road, Sidcup, Kent; Bernard J. Sherman, 148 Ramillies Road, Sidcup, Kent.

Herstam (Builders), Ltd., 138-9 Bush House, Aldwych, W.C.2. £100. Directors: To be appointed by subscribers. Subscribers: Michael Claff, 1 Southfields, N.W.4; Shinley Hart, 57 Rodney Court. Maida Vale, W.9.

Macnor Demolition Co., Ltd., 258 Brixton Hill. S.W.2. £1,000. Directors: Norman McKay, jnr., 24 Foxbourne Road, S.W.17; Norman McKay, jnr., 24 Foxbourne Road, S.W.17; Norman McKay, inr., 24 Foxbourne Road, S.W.17; Norman McKay, Shinley Hart, 57 Rodney Grant Research,

Wells Brothers (Builders), Ltd., 106 Wheelers Lane, Kings Heath, Birmingham, £1,000. Directors: Thomas U. Wells, 106 Wheelers Lane, Kings Heath, Birmingham; Alfred C. Wells, 95 Harpers Road, Northfield, Birmingham.

Jack Holdsworth and Co., Ltd., 16 Seaton-ville Road, Whitley Bay, Northumberland, builders. £500. Directors: John C. Holds-worth, 48 Earsdon Road, Whitley Bay; William Ross, 16 Seatonville Road, Whitley Bay, Northumberland.

Northumberland.

J. Hewison, Ltd., public works contractors, etc. £100. Directors: To be appointed by subscribers. Subscribers: J. Hewison, 14 Clavering Road, Winlaton, Co. Durham; J. D. Robson, "Langdale," Barlow Lane, Blaydon Burn, Co. Durham.

Burn, Co. Durham.
John Cosgrove and Sons (Builders), Ltd., 19 Dumfries Place, Cardiff. £1,000. Directors: John Cosgrove, Mrs. Lillian Cosgrove and John J. Cosgrove, all of 87 Deere Road, Ely, Cardiff. Wright Bros. (Clayton), Ltd., Victoria Works, Arkwright Street, Clayton, Bradford, builders. £10,000. Directors: John E. Wright and Brian Wright, 175 Hawarth Road, Heaton, Bradford.

Advanced Demolitica and Road, Heaton, Advanced Demolitica and Brian Wright, 175 Hawarth Road, Heaton, Advanced Demolitica and Road.

and Brian Wright, 175 Hawarth Road, Heaton, Bradford.

Advanced Demolition and Excavation Contractors, Ltd., 300 Mare Street, E.8. £100. Directors: Harold E. Skinner, 23 Atlas Road, Bethnal Green, E.2: Chas. T. Beck, 10 Anthili Road, Bow, E.3; Sidney T. Holt and Jas. D. Mustwayte.

E. C. Merriman, Ltd., "Homestead," Edward Street, Milford Haven, Pembs., builders and contractors, £1,000. Directors: Ernest C. Merriman and Mrs. Lilian M. Merriman, "Homestead," Edward Street, Milford Haven, Pembs.

Road Lines, Ltd., public works contractors, builders and contractors, etc. £2,000. Directors: Robert C. Evers (accountant) and Miss Marjorie G. Goodhew, Blossoms Inn, 23 Lawrence Lane, E.C.2.

J. Clarke (Constructions), Ltd., 30 Ship Street, Brighton, builders. £100. Directors: Anthony G. Wiles, 23 Balsdean Road, Woodingdean, Brighton; Albert E. Allwright, 26 Hurst Crescent, Portslade, Sussex: George L. Leach, 10 Brangwyn Crescent, Withdean, Brighton.

26 Hurst Crescent, Portslade, Sussex; George L. Leach, 10 Brangwyn Crescent, Withdean, Brighton.

B.C. Plant Hire Co., Ltd., Artillery Mansions, 76 Victoria Street, S.W.I. £100. Directors: John G. Christmas, 21 Hamny Close, Shoreham, Sussex; Richard W. Batten, The Firs, Cokeham Gardens, Sompting, Sussex; Cyril H. Wardroper, Netherdale, Hurst Road, Hassocks, Sussex.

Vincent (Ferndown), Ltd., 2 Evelyn Road, Winton, Bournemouth, builders, £1,000. Directors: Allen C. Vincent and Mrs. Constance L. Vincent, 2 Evelyn Road, Winton, Bournemouth.

D. J. Bates and Co., Ltd., 2 Yew Tree Road, Birchencliffe, Huddersfield, public works and paving contractors, building contractors, etc. £2,000. Directors: Donald I. Bates and Mollie Bates, 2 Yew Tree Road, Birchencliffe, Huddersfield.



Guaranteed Minimum Reckoners

DESIGNED by and for the building and civil engineering industries, a revised guaranteed minimum reckoner (B.S. 1151: Part 2) has been prepared by the Institution. Its contents reflect the requirements for the changes in working weeks which operate on October 3 and November 1 for building and civil engineering employees, respectively.

The standard gives the formula for calculating the appropriate "guaranteed minimum" due to an operative when the number of working hours available to him is less than the normal hours laid down in the Working Rule Agreement. In addition, four tables of ready reckoners—two

tion, four tables of ready reckoners—two for each industry—enable the actual pro-portions to be seen at a glance. Price 5s.

Copies of this British Standard may be obtained from the British Standards Institution, Sales Branch, 2 Par's Street, London, W.1.

PLASTIC BUILDING MATERIAL **ELIMINATES PLASTERING**

A new building material, which can be moulded into any shape or design, has been introduced by Dohm, Ltd., 167 Victoria Street, London, S.W.1.

The material, called Dohmcast, is a compound of siliceous minerals in which each fine granule is coated with polyethelene by a special process. It can be moulded into curves, cornices, pyramids or domes, and eliminates the need for plastering. Other applications for Dohmcast are as flat, patterned or embossed tiles, which can be enamelled, painted or printed, or as mouldings to building blocks to form a finished surface. Suitable for sawing, nailing and drilling, the material can also be fixed to brick with adhesives.

Moulding may be carried out on site, the minimum apparatus needed consisting

Moulding may be carried out on site, the minimum apparatus needed consisting of a mild steel mould of the required shape and size, polished and chrome-plated; an infra-red or similar oven, and a press capable of exerting a pressure of 4lb. p.s.i. over the area of the filled mould.

Twelve pounds of Dohmcast, which will be sold in its powdered form, will make 1 sq. yd. of 3/16in. tiling or sheeting.

COMPANY RESULTS

The Tunnel Portland Cement Co., Ltd.—Group trading profit for the year ended March 31, 1960, £3,069,172 (£2,568,655). Net profit £2,650,964 (£2,224,147). Final dividend 11½ per cent., making 15 per cent. (12 per cent.), plus special cash distribution of 1 per cent. Austins of East Ham, Ltd.—Group trading profit for the year ended March 31, 1960, £352,757 (£223,774). Net profit £137,124 (£84,634). Final dividend 10 per cent., making 17½ per cent. (15 per cent.).

Expandite, Ltd.—Group net profit for the year ended April 2, 1960, £126,582 (£85,567), after tax of £133,264 (£101,050). Final dividend 13½ per cent., making 20 per cent. (15 per cent.).

Ruston and Hornsby, Ltd.—Group net profit

Ruston and Hornsby, Ltd.—Group net profit for the year ended March 31, 1960, £625,708 (£577,875). Ordinary dividend 9 per cent. (8 per cent.).

Sydney Green and Sons (Contractors), Ltd.— Group net profits for the year ended Mar. 31. 1960, £76.659 (£77.556) before charging tax of £35,542 (£33.633). Dividend 25 per cent.

Robert M. Douglas (Contractors), Ltd.— Trading profit for the year ended Mar. 31, 1960, £416,458 (£661.003). Net profit after tax, etc., £234,804 (£227,327). Dividend 25 per cent. (same).

H. Fairweather and Co., Ltd.—Group net profit for year ended May 31, 1960, £37,685 (£35,014). Dividend 18 per cent., as forecast when the shares were introduced last Sentember.

Eastwoods, L'd.—Group trading profit for the year ended March 31, 1960, £1,459,235 (£1,079,308). Net profit after tax, etc., £493,490 (£286,290). Recommended final dividend 12½ per cent., making 17½ per cent. for the year (15 per cent.).



Two Weatherill 2HHCR "Hi-Tip" loaders being used to fill the 15ft, high aggregate bins on the £5½m. Hyde Park Corner-Marble Arch improvement scheme. The loaders, which supersede the AHH model, have a discharge height of 16ft, with a 15cwt. load

Trade Section

NEW ONE-TON DUMPER REQUIRES NO GREASING

A MK. XI one-ton dumper, featuring non-lubricant ball joints and a new constant mesh gearbox, is being produced by George Fowell, Ltd., Walsall Street, West Bromwich, Staffs.

Driven by a rear-mounted Petter PCI or AVAI air-cooled diesel single-cylinder engine, the dumper requires no daily, weekly or monthly greasing, the only chassis lubrication

chassis lubrication necessary being periodic attention to shackles with an oil can. Millard ball joints, with a nylon seat and ball, are used, and a number of pivots and bearing surfaces have been eliminated. Ferobestos bushes are included in the kingpin assembly.

Another feature of

Another feature of the machine is a new three-speed constant mesh gearbox, which, with rear wheel drive, gives speeds ranging from 2 m.p.h. in first gear to 8.63 m.p.h in third gear. Reverse gear gives a speed of 2.21 m.p.h. The fully enclosed drive is taken from the half-speed shaft

on the PCI engine and the crankshaft on the AVA1 engine, by a heavy-duty chain to the clutch mechanism. Engine to gearbox reduction is 25/30.

to the clutch mechanism. Engine to gearbox reduction is 25/30.

The turning circle of the dumper is 16ft., and although the maximum carrying load is one ton, the hopper capacities are 17-18 cu. ft. water level, 22 cu. ft. struck capacity, and 28-30 cu. ft, heaped capacity. Finger-light steering is claimed for the

The Mk. XI dumper

machine, the whole rear frame of which is articulative to the front. Chassis dimensions include the following: wheelbase—43in.; track front—48½in.; track rear—51in.; overall length—90in.; width—57in.; height—50in.; normal ground clearance—12in.; weight with AVA1 engine—14cwt.; and tyres—600 x 16.

F.M.C.I. VISIT TO EAST ANGLIA

The president, Mr. A. Yorke-Saville, and Council of the Federation of Manufacturers of Construction Equipment recently toured the Claydon Works of The British Steel Piling Co., Ltd., where they were welcomed by Mr. D. C. Bean, Mr. D. R. Thomas, the works manager, and members of the staff.

Later the party were received at the Waterside Works (Ipswich) of Ransomes and Rapier, Ltd., by Admiral R. S. Warne, managing director. In addition to the resident staff, the vice-chairman, Mr. K. E. Walker, London office manager, Mr. H. P. McClean and the general manager of NCK-Rapier, Ltd., Mr. I. S. Whiteman, were present.

After lunch the party toured the works and saw a demonstration of mobile cranes, including the Rapier 511—a 6-tonner still in prototype.

SCAFFOLDING WALL THICKNESS GAUGE

Solus-Schall, Ltd., County Building, Honeypot Lane, Stanmore, Middx., are marketing a magnetic scaffolding wall thickness gauge which, it is stated, permits rapid selection of sound steel scaffolding poles from those corroded beyond the limit of a specified safety margin.

PAYLOADER IN INTERNATIONAL EQUIPMENT DEMONSTRATION

A N advance model of the Britishbuilt Hough B.70 Payloader was seen in operation at a demonstration of International earthmoving equipment staged recently by Saville (Tractors), Ltd., at Whitehall Road, West Bromwich. Fitted with a Drott 2 cu. yd. bucket and powered by a Leyland 105 b.h.p. engine, the shovel gave a good indication of its possibilities for site work, sand and gravel production, and stock piling.

Production of the Payloader in this country is expected to commence shortly and a provisional price of £6,300 is being quoted. This includes a 1½yd, standard bucket.

Also demonstrated was the new Britishbuilt International BTD-8 tractor which was seen scraping and 'dozing. This tractor, described in our issue of July 14, is powered by a specially designed International BD-281 engine developing 60 b.h.p. at a rated governed speed of 1,600 r.p.m. Maximum torque is 225lb./ft. at 1,100 r.p.m.

1,100 r.p.m.
Other equipments demonstrated were the BTD-6 crawler tractor and the more recent BTD-20. Mr. W. P. Lumley, who introduced the machines, said that sales of the former had now well passed the 11,000 mark, and Saville (Tractors), Ltd., had been responsible for placing a very big share of this total.
Visitors to the demonstration also saw

big share of this total.

Visitors to the demonstration also saw the B-41-1 crane, mounted on a B450 wheel tractor and Sherman digging equipment also mounted on a B450.



Payloader and BTD-8 operating at West Bromwich

Current Constructional Activities

AWARDS PROJECTS CONTRACTS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the Journal.

BUILDING AND DECORATING

(See also Housing Schemes)

Aberdeen.—North-Eastern Regional Hospital Board I Albyn Place, Aberdeen, have approved the erection of an out-patients' department at the Sick Children's Hospital, Westburn Drive. Estimated cost £152,000.

Anglesey.—Rofe and Raffety, consulting engineers, 3 Victoria Street, London, S.W.l. have prepared plans for the construction of an impounding reservoir at Cros-y-Bol for C.C.

an impounding reservoir at clossy-sol for C.C.

Armagh.—Munce and Kennedy, 133 University Street, Belfast, are the architects for a small covered swimming pool for City Council Estimated cost £50.000.

Aylesbury, Bucks.—B.C. have granted outline planning permission for the erection of shops with offices over and a car park at 50 Buckingham Street, for Covenant Securities, Ltd., 130 Mount Street, London, W.1.

Co. Planning Committee considering plans for the erection of Aylesbury College of Further Education at California site, Oxford Road.

Road.

Berkshire.—E.C. have included the erection of Furze Platt Infants' School at Marlow Road, and Boyn Hill Girls' Secondary School at Norden Farm site, in 1960-61 programme, estimated cost £45,000 and £110.055, respectively; to invite tenders from selected contractors for secondary modern school at Furze Platt

Platt.

Berkshire. — Co. E.C. recommended to approve construction of first stage of South East Berks College of Further Education at Bracknell. estimated cost £156.503, and new huildings for Windsor County Girls' School.

buildings for vinus.

E246,756.

Blackburn, Lancs.—General Purposes Committee have approved plans for a new ambulance station on a site at the corner of Addison Street and George Street West.

Bournemouth, Hants.—B.C. propose the erection of a concert hall on Bascombe Pier. Estimated cost £35,000.

Bradford, Yorks.—City architect to be instructed to prepare plans and estimates for the erection of a combined maternity and child welfare and school health service clinic at Allerton and for a small subsidiary clinic on the Wood Side estate.

City Council recommended to instruct Clyde Young and Bernard Engle, architects. 8 New Square. London, W.C.2, to prepare working drawings and invite tenders for extensions at the Margaret McMillan Memorial Training College.

City Council recommended to invite tenders for erection of a new mess room at Esholt sewage disposal works. Estimated cost 53.000.

sewace disposal works. Estimated cost £3.000.

City Architect to be instructed to prepare a scheme for erection of a new conditioning house at Mount Street, including provision of mechanical handling equipment.

City Council recommended to approve modernisation of canteen at Thornbury Works. Estimated cost £13.650.

City Council recommended to approve sketch plans and instruct Sir John Burnet, Tait and Partners. 10 Bedford Square, London. W.C.1, to prepare working drawings and invite tenders for the erection of the Belle Vue Boys' Grammar-Technical School.

City Council recommended to approve she to the service of the service of the service of the Electric Street School.

City Council recommended to appoint Samuel Jackson and Son. Ocean Chambers, Piccadilly. Bradford. 1, architects, for alterations to the Browning Street premises of the Technical College.

Brandon, Dur.—Plans are being prepared by the C.W.S. Architect's Dept., 90 Westmorland Road, Newcastle upon Tyne, for the

erection of a distribution depot at Langley Moor for East Durham Co-operative Dairies, Ltd.. Wingate.

Bridlington, Yorks.—B.C. recommended to approve redevelopment of the Esplanade frontage of Royal Prince's Parade between the Floral Pavilion and the information bureau. Work will involve rebuilding the cafe, etc. Estimated cost £5,100.

Brighton, Sussex.—B.C. have appointed Sir Hugh Casson, 35 Thurloe Place, London, S.W.7, as architect for the redevelopment of the 11½ acre site bounded by Kings Road, West Street and Regency Road.

Burnham-on-Sea, Som.— U.D.C. recommended to invite tenders for the construction of an open-air swimming pool. Estimated cost £15,000.

Burnley, Lancs.— Quantities are now being

of an open-air swimming pool. Estamated Cost £15,000.

Burnley, Lancs. — Quantities are now being prepared prior to the invitation of tenders, for erection of premises at the corner of Boot Street and Croft Street for Masseys (Burnley) Brewery, Ltd. H. Hubbard Ford, architect. 35 South Audley Street, London, W.I., and Cecil F. Baker and Partners, quantity surveyors, 20 Lowndes Street, London, W.I. Estimated cost £90,000.

Bury St. Edmunds, Suffolk.—East Anglian Regional Hospital Board have appointed J. W. Stockings and Clarke, London House, London Street, Norwich, as quantity surveyors, for the conversion of ward hut 6 into dual ward at West Suffolk General Hospital.

Cheltenham, Glos.—M.E. have approved

at West Suffolk General Hospital.

Cheltenham, Glos.—M.E. have approved the inclusion of a new four-form entry grammar school for 750 pupils in the 1962-63 programme for E.C. Estimated cost £275,935.

Chester.—City Council recommended to apply for sanction to borrow £1,000 for the provision of sick bay accommodation at Rowland's Lodge old people's home.

City Council have approved scheme for the erection of a crematorium on site at Blacon Cemetery.

Colchester, Essex.—B.C. propose the con-

Colchester, Essex. — B.C. propose the con-

Colchester, Essex.— B.C. propose the construction of an indoor swimming pool at junction of Boadicea Way and Shrub End Road. Estimated cost £100,000.

Croydon, Surrey.—A. Minoprio, 18 Seymour Street, London, W.I. is the architect for the erection of office blocks, shops, a restaurant and drive-in bank with parking facilities on the site of the Trinity School of John Whitgift, North End, for the Whitgift Foundation. Scheme in preliminary planning stage and outline planning approval has yet to be obtained.

Darlington, Dur.—Holy Trinity Church are

Darlington, Dur.—Holy Trinity Church are seeking a site for the erection of a church to serve the Hummersknott and Mowden

serve the Hummersknott and Mowden estates.

Markets Committee have approved in principle the erection of new canteen at Cattle Mart. for the Darlington Farmers' Auction Mart Co. Approval subject to planning permission being granted.

Darlington, Dur.—Welfare Committee have approved scheme for adaptation of former reception centre for aged and infirm people and the erection of handicraft centre at East Haven Hospital. Estimated cost £10,540 and £8 725. respectively.

Dover, Kent.—Library and Museum Committee are considering plans for the erection of new premises for the Children's Library.

Edinburgh.—Dean of Guild Court have approved the extension at Ferry Road for Ferranti, Ltd., Hollinwood, Lancs. Estimated cost £50,000.

Elham, Kent.—R.D.C. have approved erec-

cost £50.000.

Elham, Kent. — R.D.C. have approved erection of an aircraft hangar at Lympne Airport for Skyways Coach/Air, Ltd., Lympne Airport,

for Skyways Coach/Air, Ltd., Lympne Airport, Hythe. Kent.
Eston, Yorks.—North Riding C.C. recommended to provide, subject to M.E. approval, school meals accommodation and playing fields at St. Anne's R.C. Modern School. Estimated cost £6.400.
Exeter.—City Council recommended to approve plan for the provision of a kiosk shop at Eastgate. Estimated cost £1.500; erection of a bus and coach station at Paris Street. £100.000; reserve site at Dix's Field for the construction of new municipal offices and associated buildings.
Felixstowe. Suffolk.—East Anglian Regional

associated outlings.
Felixstowe, Suffolk.—East Anglian Regional Hospital Board have appointed B. A. Hatcher, 1 Arcade Street, Ipswich as architect, and Caston and Porritt, 77-79 Grimwade Street, Ipswich as quantity surveyors, for alterations and additions to Felixstowe General Hospital.

Gillingham, Kent. — Borough Engineer to prepare plans for a new kitchen and dining room at Gillingham Boys' Grammar School.

Goole, Yorks.—Planning Committee have approved plans for erection of a three-storey shops at 88-90 Boothferry Road for R. Fleming and Sons.

shops at 88-90 Boothferry Road for R. Fleming and Sons.

Great Yarmouth, Norfolk.—East Anglian Regional Hospital Board have appointed Olley and Haward, 5 Queen Street, as architects for central X-ray department and adaptation of old kitchen premises at Northgate Hospital Halesworth, Suffolk.—East Anglian Regional Hospital Board have appointed L. N. Hyams, 29 Elm Street, Ipswich, as quantity surveyor for a new recreation hall at Risbridge Home, Kedington. Estimated cost £8,000.

Harrogate, Yorks.—Bernard Blanchard, 34 George Street, Hull, is the architect for erection of the new Woodlands Methodist Church. Estimated cost £20,000.

Harrow, Middx.—Deacon and Laing, 65 Goldington Road, Bedford, are the architects, and L. A. Francis and Sons, Vernon House, Sicilian Avenue, Bloomsbury Square, London, W.C.I., the quantity surveyors, for an extension to the existing store at Station Road, for Sopers of Harrow, Ltd.

Haxby, Yorks.—North Riding Co. E.C. have approved sketch plans for branch library.

library.

Holmfirth, Yorks.—U.D.C. recommended to instruct the architects to prepare drawings, etc., and invite tenders for the second stage of the town hall reconstruction. Estimated cost £5,500.

of the town hall reconstruction. Estimated cost £5,500.

Houghton-le-Spring, Dur.—Conversion of the Coliseum Cinema, Newbottle Street, into shop premises for the Howard Collings Group of Companies, London, proposed. Ivor Hodges, architect, 10 Grays Inn Square. London. W.C.I.

Ipswich, Suffolk.— Johns, Slater and Haward, 32 Foundation Street, are the architects for the erection of a public house at Maidenhall estate, for Ind Coope (East Anglia), Ltd., The Brewery, Romford.

East Anglian Regional Hospital Board have appointed L. and P. Barefoot, 22 Thorofare, as architects, and Caston and Porritt, 77-79 Grimwade Street, as quantity surveyors for extension to dental department at the Anglesea Road wing of Ipswich and East Suffolk Hospital.

Isle of Thanet, Kent.—South East Metropolitan Regional Hospital Board are preparing plan for the first phase of development of Margate General Hospital, comprising an outpatients' department with connecting corridor, basement storage and extension to the boiler house.

Isle of Wight.—E.C. have approved schemes

house.

Isle of Wight.—E.C. have approved schemes for a secondary modern school at Pell Lane. Ryde, and school for educationally sub-normal children at Watergate Road, Newport. Estimated cost £197.825 and £55,731, respectively.

Laneley, Bucks.—Pasolds, Ltd., to erect a 120.000 sq. ft. single-storey warehouse. Estimated cost £180.000.

Landey, Bucks.—Pasolds, Ltd., to erect a 120.000 sq. ft. single-storey warehouse. Estimated cost £180.000.

Lowestoft. Suffolk.—Posford, Pavry and Partners, Abbey House. Victoria Street, London. S.W.I. are the consulting engineers and Martin Hutchinson of Hutchinson and Mitchell, 37 Great lames Street, Bedford Row, London, W.C.I. the associate architect, for a factory at Waveney Drive for Boulton and Paul. Ltd. Scheme in early vilanning stage. Loddon. Norfolk.—East Anglian Regional Hosbital Board have appointed A. F. Scott and Sons. 23 Tombland, Norwich as architects for completion of ungrading Hales Hospital Festimated cost £12 500.

Maidenhead, Berks.—Goddard and Smith, planning consultants, 22 King Street, St. James's, London. S.W.I., are preparing scheme for the redevelopment of the town centre for B.C.

Maldon, Essex.—R.D.C. have approved lavout plans for the demolition of all existing Covneil offices. Estimated cost £80 000.

Mansfield, Norts.—B.C. recommended to approve plans and invite tenders for the erection of combined public conveniences and bus shelter at Meden Square. Pleasley Hill.

March. I. of E.—U.D.C. recommended to prevare scheme for improvement to 16 dwellings at Wishech Road.

Middlesbough, Yorks.—Union International Co. Ltd. London, are negotiating with the BC. for lease of land at the corner of South Bank Road and Cargo Fleet Lane, for the erection of an abattoir and ancillary premises:

Jordison and Co., Ltd., Marton Road, propose new works and offices in Longlands Road; plans approved for new department of physical medicine at General Hospital for New-castle Hospital Board. P. H. Knighton, chief

architect.

M.E. have approved the E.C.'s scheme for extensions to Constantine Technical College at a cost of £745,000. No detailed plans have yet been prepared. Sketch pans have also been approved for additions to Easterside Primary School and Langbaurgh Secondary

Primary School and Language.
School.
Housing Committee has provisionally allocated a site at Berwick Hills for a district centre to include swimming baths, health centre, branch library, community centre and site for the Joe Walton Boys' Club.

centre to include swimming baths, health centre, branch library, community centre and site for the Joe Walton Boys' Club.

Newcastle upon Tyne.—Waring and Netts, I Lansdowne Terrace, Gosforth, are the architects for showrooms restaurant, offices and warehouse at Low Friar Street for D. Levey; St. Andrews Motors, Ltd., St. Andrews Buildings, Gallowgate, are to erect showrooms and offices at 45-53 George Street (M. and H. Gatoff, architects, 26 Mosley Street, Newcastle); revised plans approved for converting the Albion Hotel, Clayton Street, into snop and storeroom for Marcus Levey and Co. (Fewster and Partners, architects, 22 Conduit Street, London, W.I); Norwich Union Insurance Societies, Ltd., Norwich, are to carry out alterations to 89-91 Jesmond Road to form offices and flat; Hepworths, Ltd., Claypit Lane, Leed, 2, are to erect shop premises at 26-28 Blackett Street, and have prepared their own plans; plans in hand for actory extensions at Water Street and Penn Street for Austin Lifts, Ltd. (Tasker and Partners, architects, 25 New Bridge Street); David Brown, 10 Lambton Road, Jesmond, is the architect for R.C. secondary modern school at Benwell Village; plans are being prepared by Mauchlen, Weightman and Elphick, 12 Saville Row, for extending residential flats at 105-14 West View for L. T. Penman, Ltd.

Work is to start next year on extensions to the Students' Union and the erection of new refectory at King's College for Durham University. Planning approval received. The architect is William Whitfield, of Raglan Squire and Partners, 3 Hobart Place, London, S.W.I. Estimated cost £400,000.

Newcastle United Football Club are to erect a new grandstand at their St. James' Football

S.W.I. Estimated cost £400,000.
Newcastle United Football Club are to erect a new grandstand at their St. James' Football Ground. The scheme is being discussed between the architect, E. M. Lawson, Barras Buildings, Barras Bridge, and the city planning authorities.

Buildings, Barras Bridge, and the city planning authorities.
City Council's scheme for a new College of Commerce at St. Mary's precinct has been approved. It is also proposed to erect a College of Industrial Design on a nearby site, and work on both schemes is expected to start in 1962-63

in 1962-63
Norwich.—East Anglian Regional Hospital Board have appointed P. Pank and Partners, 15 The Close, as quantity surveyors for improved kitchen and sanitary facilities for wards 1 and 3 at the Norfolk and Norwich Hospital; A. F. Scott and Sons, 23 Tombland, as architects for improvements to laundry at West Norwich Hospital, Estimated cost 66.400. £6,400.

East Anglian Regional Hospital Board recommended to authorise, subject to Ministry approval, the preparation of working drawings and bills of quantities for the erection of school buildings at Little Plumstead Hospital Hospital.

or senool buildings at Little Plumstead Hospital.

Planning Committee have conditionally approved plans for the erection of a lie-engineering works and office block at Sweet Briar Road for the Balding Engineering Co., Ltd., Beaver Works, Bessemer Road.

Chaplin and Burgoine, architects, 4 The Close on behalf of R. G. Lawrence, have submitted to Planning Committee for approval plans for 20 shops, 130 flats, 25 garages and 145 parking spaces, including a six-storey block of flats at junction of Recreation Road and Earlham Road.

E.C. are preparing plans for extensions to the City College and Art School. Estimated cost £200,000.

Nottingham.—City Council propose the

Nottingham.—City Council propose the erection of a three-storey building incorporating a youth club and old people's club at Derby Road.

ing a youth club and old people's club at Derby Road.

Nuneaton, War.—B.C. recommended to appoint H. N. Jepson and Partners, Midland Bank Chambers Newdigate Place, as architects for the construction of public conveniences at Abbey Green; approve revised preliminary plans and invite tenders in due course for proposed swimming baths; approve in principle a proposal for a conservatory at Riversley Park. Estimated cost £5,000.

B.C. recommended to approve, subject to conditions, plans for petrol and service station and 20 lock-up garages at Attleborough Road for Monty Moreton, Ltd.; rebuilding and extension of retail shop, 4, 5 and 6 Market

Place for Marks and Spencer, Ltd., phase 2 of St. Joseph's R.C. Primary School for S. N. Cooke and Partners, architects, 34 Harborne Road, Edgbaston, Birmingham, 15.

Oxford.—City Council recommended to approve plans for the erection of public conveniences at Knights Road, Blackbird Leys estate.

estate.

Pembroke Dock.—B.C. have approved plans for the conversion of London House into a convent chapel with residence for the community for the Rev. Mother General, Chigwell Convent, Woodford Bridge, Essex. Architects for the scheme are P. and M. White, Granville House, Arundel Street, London, W.C.2.

Granville House, Arundel Street, London, W.C.2.

Port Talbot, Glam. — Co. E.C. propose the erection of a new county primary school at Sandfields estate.

Prestwich, Lancs. — Co. E.C. raises no objection to plans for the erection of an R.C. grammar school for boys.

Reading, Berks.—E.C. recommended to submit to M.E., for approval, plans for an extension to Reading Technical College.

St. Andrews, Fife.—B.C. have approved plans for extensions to St. Leonards and St. Katherines Schools for Girls, including new science departments, art rooms and gymnasium. Estimated cost £60,000.

Sheffield.—Fire Brigade Committee have approved in principle plan to move the workshops from Norton to Darnall station. Estimated cost £12,000.

Skelmersdale, Lancs.—U.D.C. have approved the erection of an automatic telephone exchange at junction of High Street and Church Road.

Stoke-on-Trent, Staffs.—City Architect to

Stoke-on-Trent, Staffs. — City Architect to epare sketch plans for police headquarters prepare s

prepare sketch plans for police headquarters at Hanley.

Stone, Kent. — Parish Council propose the erection of an all-purpose building on the erection ground, including dressing rooms, Council chamber and social hall.

Strensall, Yorks. — North Riding Co. E.C. have approved adaptation of shop premises in the High Street into branch library.

Sunderland, Dur.—R.C. church to be built at Hylton for the Diocese of Hexham and Newcastle upon Tyne. The architects are Stienlet and Son, 4 Queens Square, Newcastle upon Tyne.

Taunton, Som.—Planning Authority have approved layout plans for the development of the Priorswood area as an industrial site, for T. S. Penny (Property Development), Ltd., including the construction of a bridge over the canal and various roads. H. S. W. Stone and Partners, 20 The Crescent, Taunton, are the architects.

Thornaby, Yorks.—North Riding C.C. propose the erection of

Partners, 20 The Crescent, Taunton, are the architects.

Thornaby, Yorks.—North Riding C.C. propose the erction of a new infant school on the Thorntree Road site.

Co. E.C. have approved sketch plans for alterations and extensions to the St. Patrick's R.C. Primary School.

Tynemouth, Northumb.—Borough Engineer to prepare a scheme for converting Cleveland Villa nursery into an occupational centre for subnormal people; detailed plans are to be prepared for the fourth stage of the East End (North Shields) redevelopment scheme. It is proposed to erect a three-storey block comprising six shops and six maisonnettes and two blocks of 12 flats and 14 maisonnetets.

Wallingford, Berks.—Co. E.C. have included extensions to Wallingford Grammar School in 1960-61 programme. Estimated cost £80,000.

Walsall Staffe.—M E. have according to the stage of the programme.

extensions to Wallingford Grammar School in 1960-61 programme. Estimated cost £80,000. Walsall, Staffs.—M.E. have approved the inclusion of county secondary school for the Beechdale estate and the completion of the Queen Mary's Grammar School at Mayfield in the 1962-63 school programme for E.C. Estimated cost £186,000 and £133,000, respectively

Estimated cost £186,000 and respectively.

Whiley Bay, Northumb.—B.C. have approved in principle a scheme for the construction of an indoor swimming pool costing £165,000. Further details of the scheme are and all neople's

£165,000. Further details of the scheme are to be prepared.

Wolverhampton, Staffs. — Ministry have approved in principle scheme for five old people's homes for the Welfare Services Committee. Estimated cost £300,000.

Plans for the first home at the Broadway, Bushbury, have been approved by Ministry. Estimated cost £83,000.

Worcester. — Magistrates have approved plans for alterations to the Bell Inn, Droit-wich Road and White Hart Inn, College Street, for Flower and Sons, Ltd., Stratford-upon-Avon.

DEMOLITION

Belfast.—Housing Committee have approved in principle the demolition of 27 houses at Lonsdale Street and Eglinton Street.

Brighton, Sussex.—Ministry have allowed scheme for demolition of three houses in Waterloo Place and erection of an office block on the site for Westminster Construction Co. 36 Westminster Palace Gardens, Artillery Row, London, S.W.1.

ELECTRICAL

Bradford, Yorks. — City Council recommended to approve scheme for electric lighting improvement in the overhauling and repair workshop at Thornbury Works. Estimated cost £3,000.

cost £3,000. Whitby, Yorks.—North Riding C.C. recommended to approve the installation of a passenger lift, etc., at County Home for the Aged at 19 Royal Crescent. Estimated cost £3,250.

GAS AND WATER SUPPLY

Bradford, Yorks.—City Council recommended to approve the laying of naw water mains. Estimated cost £10,000.

Bridlington, Yorks.—Waterwork Committee are to implement a scheme to provide a water supply to an area north-east of Bempton, subject to conditions. Estimated cost £6,900 Darlington, Dur.—B.C. to submit to the Ministry scheme for reorganising the town's water supply system. Estimated cost £140,000.

Ramsgate, Kent.—Thamet Water Board have approved scheme for laying water mains from Stirling to Spratting Street fork roads and from Manston Aerodrome to Bush Farm. Estimated cost £3,120.

Southampton.—B.C. recommended to apply for sanction to borrow £33,000 for the construction of a booster station at Woodside, Eastleigh; approve scheme for the installation of a local booster at Upton Crescent, Nursling. Estimated cost £800.

HARBOURS, PIERS AND SEA DEFENCE WORKS

- Administration and Finance

Caithness.— Administration and Finance Committee propose protection works for John O' Groat's House Hotel and a cottage. Estimated cost £15,000.

Dover, Kent.—Harbour Board are considering a new scheme for reclamations at the eastern end of the harbour.

Poole, Dorset.—Ministry are to hold a public inquiry on October 11 into B.C.'s scheme for coast protection works at Sandbanks Beach. Estimated cost £77,500.

HEATING AND VENTILATING

Keighley, Yorks. — West Riding C.C. have approved installation of an oil-fired system for heating part of the divisional police head-quarters and court house.

for heating part of the divisional police head-quarters and court house.

Southampton. — B.C. recommended to appoint Stinton, Jones and Partners, 21 Gloucester Place, London, W.I., as heating consultants for the conversion of boys' school at Millbrook Secondary Mixed School. Lyons, Israel and Ellis, 43 Portland Place, London, W.I., are the architects for the scheme.

HOUSING SCHEMES

Alston, Cumb.—R.D.C. are planning the erection of eight flats at the rear of the Cottage Hospital.

Antrim.—R.D.C. propose to erect 350

Cottage Hospital.

Antrim.—R.D.C. propose to erect 350 houses and a shopping centre on a 40-acre site at Ballvcraigy, Mvckamore.

Barnet, Herts.—U.D.C. have granted outline planning permission for the erection of flats and garages at East View for George Reed (Builders), Ltd., 255 Green Lanes, London, N 13

Bullocers, Bus., W. Boldon, Dur.—U.D.C. planning the erection of 50 terrace houses at North Road, Boldon Colliery, and a number of bungalows are proposed on derelict gardens on the Boldon Colliery housing site; County Planning Authority have approved U.D.C.'s proposals to erect 68 houses on a site of 5.3 acres at Whithurn.

Whitburn.
Colchester, Essex.—E. C. P. Brante, The
Central Works, High Street, Braintree, propose the erection of 30 houses at Tey Road,
Earls Colne.
Croydon, Surrey.—B.C. recommended to

Earls Coine.

Croydon, Surrey.—B.C. recommended to grant planning permission, subject to conditions, for the erection of 14 houses and garages at Wharncliffe Road, for H. R. P. Owens, High Pines, Homefield Road, Upper Warlingham: four flats, eight maisonnettes and 12 garages at 51 Ashburton Road, for E. W. Waller and E. Bird, 16 Park Lane, Crowdon; 15 flats and 10 garages at 15 Ashburton Road, for S. Connor (1955), Ltd., 44 Oakwood Avenue. Purley; 42 flats and 42 garages on site of Knighton Hotel, 139 Pampisford Road, for Wellwood Estates, Ltd., 2 Sloane Gardens, London, S.W.1; 47 flats and 38 garages at 252-260 South Norwood Hill, for H. B. Kingston, Ltd., and Dorrington Investment Co., Ltd., 145 London Road, Kingston-on-Thames; construction of new street and erection of Ltd., 145 London Road, Kingston-on-Thames: construction of new street and erection of (a) 24 flats and 21 garages or (b) 24 flats and 19 garages at 29-31 Haling Park Road, for Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, St. George's Circus. London, S.E.I; 30 flats, 15 lock-up garages and parking space for five cars at 242-246 South Norwood Hill, for House Property Advice and Mortgage. 20 Harrow Road, Monks Park; 21 flats and 16 lock-up garages at 12 and 14 Sylvan Road, for F. W. Kubach, c/o 3 Church Road, Upper Norwood, London, S.E.19; 23 flats and 23 garages at Malatia, 78 St. Augustine's Avenue, for Abasic, Ltd., 181 Pampisford Road, Croydon; 16 flats, 24 maisonnettes and 40 garages at 45-51 Warminster Road, for M. J. Gleeson (Contractors), Ltd., 107 Baker Street, London, W.1.

t. — R.D.C. propose housing land backing Lesley Close, Dartford, Kent. -

Dartford, Kent. — R.D.C. propose housing development on land backing Lesley Close. Swanley.

Deal, Kent.—Town Planning Committee have granted outline planning permission for erection of 300 flats in multi-storey blocks on the site of the Mansion, Walmer Place, for Sir James Millar and Partners and Commercial Holdings Co.

Dolgellau, Merioneths.—U.D.C. to prepare final plans for the erection of 18 flats at the Lombard Street site.

Eastry, Kent.— R.D.C. have approved the erection of eight three-bedroom houses and four bungalows for aged persons. Estimated cost £22,154.

Elland, Yorks.—U.D.C. recommended to ap-

ost £22,154. Elland, Yorks.—U.D.C. recommended to approve the erection of an initial total of 50 trages for letting to Council house tenants

Gosport, Hants,—B.C. recommended to proceed with scheme for the crection of a block of five-storey flats adjacent to the Halesent to the Hales Gosport,

block of five-storey flats adjacent to Holy Trinity Vicarage.

Halesworth, Suffolk.—U.D.C. to erect a further 30 houses at Branfield Road estate.

Hartlepool, Dur.—Taylor and Evans, Ltd., 22 Elwick Road, West Hartlepool, are to erect groups of 50 and 66 houses in the King Oswy Drive area, and plans are being con-

Oswy Drive area, and plans are being considered by the planning authorities.

Houghton-le-Spring, Dur.— Isaac Berriman, Ltd., Fence Houses, propose housing developments at North View, and similar developments are proposed at Quarry Road and Station Road, Shiney Row, for William Leech, Ltd., St. James Street, Newcastle upon

jarrow, Dur. — Smith Gore and Co., 81 Bonngate, Darlington, have prepared a scheme for housing developments on seven acres of land at Hedworth Town Farm, for the Church

for housing developments on seven acres or land at Hedworth Town Farm, for the Church Commissioners.

Leeds.—Housing Committee have approved sites for seven blocks 23 storeys high, 10 blocks 17 storeys high and 18 blocks 12 storeys high as well as layouts for seven new estates and revised plans for the big Camp Road redevelopment area. The new blocks will have flats on 22, 16 and 11 floors, respectively, with the ground floors used for entrances, stores, caretakers' flats and ancillary purposes. Four of the 23-storey blocks, each with accommodation for 535 persons in four- and two-person flats with one five-person flat, will be built on the Camp Road estate. Two blocks are planned at Cromwell Heights, Lincoln Green (Burmantofts) and one at Charing Cross Street, off Woodhouse Street. These flats will have 60 garages outside the block and 23 garages in the basement.

Llanelly, Carms.—B.C. are to erect 50 houses and R.D.C. 150 at various sites for employers of the B.M.C. factory at Felinfoel.

Midhurst, Sussex.—Planning Authority have approved layout of 26 dwellings and block of

Midhurst, Sussex.—Planning Authority have approved layout of 26 dwellings and block of six garages at the Sandrock housing site, and the New Road, Midhurst housing site, for R.D.C.

the New Road, Midhurst housing site, for R.D.C.

Nuneaton, War.—B.C. recommended to proced with schemes for a block of 12 threstorey flats and nine garages; a general shop store, house and garage; two-storey block of 20 old people's flats and warden's house; and a block of 36 three-storey flats and 18 garage; on infilling sites at Camp Hill estate; approve plans for 87 dwellings and 57 garages off Haunchwood Road, Wood Farm estate.

B.C. recommended to approve, subject to conditions, plans for eight houses, 58 bungalows and garages off Hickman Road for D. G. Lewis (Birmingham), Ltd., 213 Yardley Road, Birmingham, 27.

Ossett, Yorks.—B.C. recommended to approve, in principle, plans for a three-storey building, comprising two-person dwellings and two-bedroom maisonnettes as a typical three.

two-bedroom maisonnettes as a typical three-storey block for inclusion in the Town End

redevelopment scheme.

Penrith, Cumb. — U.D.C. to sell land near Holme Riggs Avenue to John Laing and Sons. Dalston Road, Carlisle, for the erection of 20

Southampton. — B.C. recommended to negotiate a tender with Dor Properties (Bournemouth). Ltd., for the erection of a 20-storey block of flats at Redbridge round-

about.

Tutbury, Staffs.—R.D.C. to submit to Ministry and C.C. for approval revised layout plans for 26 bungalows at Barton-under-Needwood and layout plans for a block of five one-bedroom bungalows for the Bridge Street site, Stretton, and for a block of two-bedroom houses (for slum clearance) at the Green site, Stretton.

Tynemouth, Northumb.—B.C. is in touch with Gregory Housing, Ltd., regarding the erection of Council houses on the Moor Park sale.

Details have been submitted to the B.C. of a plan for the erection of a 10-storey block of luxury flats comprising 87 flats at East Street. There will also be a cafe and restaurant and accommodation for 130 cars. The promoters are Cussins (Contractors), Ltd.. The Drive, Gosforth, Newcastle upon Tyne, and the architects, Jack Cotton, Ballard and Blow, 48 Pilgrim Street, Newcastle upon Tyne. Plans are to be prepared by J. Smeds, 56a Camden Street, North Shields, for erection of houses in Borough Road.

PLAYING FIELDS, PARKS, ETC.

Croydon, Surrey.—B.C. recommended to approve the construction of two hard surface pitches and four hard surface tennis courts at Shirley Secondary School. Estimated cost

RIVER AND FLOOD PREVENTION WORKS

Llanelly, Carms.—Ministry have approved land drainage improvement scheme for the Dafen River to relieve flooding, for the South-West Wales River Board. Estimated cost £13,000

\$13,000.

South-West Wales River Board have approved British Motor Corporation scheme to divert the Dafen River near the site of the Corporation's new factory at Felinfoel. Estimated cost £20,000.

Willshire.—Avon and Dorset River Board propose schemes for channel improvement on the Avon, from Amesbury to Bulford, and the construction of a gauging station at East Mills Fordingbridge. construction of a gauging station at East Mills, Fordingbridge,

ROADS, BRIDGES AND SITE WORKS

ROADS, BRIDGES AND SITE WORKS

Ayr.—Dean of Guild Court have approved plans for preliminary works including drainage, road works and site preparation at the site of the £500,000 technical college at Dam Park. Estimated cost £28,000.

Bath, Som.—City Council to proceed with the preparation of plans for the first section of the inner circulating road, from the Old Bridge to Green Park railway station Estimated cost £50,000.

Bexhill-ona-Sea, Sussex.—B.C. have approved construction of a link road from Suffolk Road to Glover Lane. Estimated cost £2,023.

Bridlington, Yorks.—Highways Committee to receive grant for straightening the bend and improving Bessingby Hill and improvement of the hump on the bridge over the Gypsy Race. Estimated cost £5,000.

Brighton, Sussex.—B.C. recommended to invite tenders for roadworks for 59 aged persons dwellings, at junction of Coldean Lane and Lewes Road, estimated cost £2,202; approve scheme for improvements to inner roadways at The Level, £2,690.

Calne and Chippenham, Wilts.—R.D.C. have approved schemes for caravan site at rear of Hart Close, Goatacre, and extension of the North Leaze caravan site, Corsham. Estimated cost £840 and £4,140, respectively.

Carmarthenshire. — Ministry have approved scheme for the improvemend of Pontamman Road (part) for C.C. Estimated cost £9,500

Croydon, Surrey.—B.C. recommended to submit to Ministry for approval and grant aid, scheme for widening the carriageway of Church Street by the Eagle Public House, estimated cost £4,000; approve the making-up of Purley Way to the Junior Occupation Centre, Coldharbour House, £1,500; proposal for the construction of a roundabout at Junction of Upper Shirley Road, Shirley Road and Wickham Road, £28,000.

of Purley Way to the Junior Occupation Centre, Coldharbour House, £1,500; proposal for the construction of a roundabout at junction of Upper Shirley Road, Shirley Road and Wickham Road, £28,000.

Dorset.—M.T. have approved for grant aid C.C.'s scheme for construction of a roundabout at Warmwell Cross, near Dorchester.

Lytham St. Annes, Lancs.—B.C. recommended to apply for sanction to borrow £1,394 for making-up Clarendon Road North (part of) from Headroomgate Road to Backheadroomgate Road, £784; for Clarendon Road North (part of) from St. Annes Road East to Back St. Annes Road East; and £2,826 for Caryl Road (part of) from Norwood Road to Highbury Road West.

Newcastle upon Tyne.—City Council in conjunction with Durham C.C. are to construct a new low-level bridge across the Tyne near the existing Scotswood Bridge. It is not expected, however, that the work will be started for at least two years, as a Parliamentary Bill has to be promoted.

Redcar, Yorks.—North Riding C.C. recommended to approve, subject to M.E. approval. site works, etc., at R.C. Modern School, estimated cost £18,845; and £3,310.

Richmond, Surrey.—B.C. to consider scheme for the construction of high-level road between Kew Road railway bridge by Richmond

station and Richmond Bridge running across Sheen Road near Eton Street.

St. Ives, Hunts.—B.C. recommended to approve scheme for the improvement of Pig Lane. Estimated cost £1,000.

Stourbridge, Worcs.—B.C. recommended to approve plans for making-up Fir Grove, Wallaston.

allaston.

Stroud, Glos.—Co. Highways Committee Stroud.

Stroud, Glos.—Co. Highways Committee have approved schemes for improvement of London Road, Bowbridge, and junction of Bath Road and Burdett Road, Stonehouse, Estimated cost £3,200 and £1,000, respectively.

Ulverston, Lancs.—M.T. have approved the construction of a trunk road which runs from The Ellers to the main Barrow Road at Princes Street, for U.D.C. Estimated cost £70,000

E70,000.

Walsall, Staffs.—B.C. recommended to apply for sanction to borrow £28,365 and £2,930, respectively for the first stage of the reconstruction of roads in Digbeth, Lower Hall Lane and adjoining area and the reconstruction of Fryers Road, Bloxwich.

Whitefield, Lanes.—U.D.C. have applied for sanction to borrow £1,350 for making-up Well Lane

sanction to borrow £1,350 for making-up Well Lane.
York.—North Riding C.C. recommended to approve, subject to M.E. approval, site works. etc., at the Ampleforth R.C. School. Estimated cost £4,835.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Antrim. — Ministry have approved R.D.C plans for a sewerage scheme at Mossley and the erection of a sewage disposal plant in the

Bexley, Kent.—B.C. recommended to invite tenders for the provision of a surface sewer between Westwood Lane an and

Bradford. — City Council recommended to apply for sanction to borrow £93,000 and invite tenders for demolition of sulphuric acid plant and erection of new sulphuric acid plant of the "Contact" type to burn sulphur at Esholt sewage disposal works.

Resintree Essex.—R.D.C. to prepare, for

sewage disposal works.

Braintree, Essex.—R.D.C. to prepare, for submission to Ministry for approval, outline scheme for the construction of new sewage disposal works to serve the parishes of Coggeshall and Kelvedon. Estimated cost £177,000.

Bridlington, Yorks. — B.C. recommended to prove scheme for provision of sewer in

approve scheme for provision of sewer in kingsgate.

Eastry, Kent. — Ministry have authorised R.D.C. to invite tenders for sewerage schemes for Worth and Sholden.

Exeter.—Ministry have approved scheme for the provision of a surface water sewer at Wonford Street, for City Council. Estimated cost £4,900.

Harwich, Essex.—B.C. recommended to carry out a complete survey of the sewerage system and prepare report on the prevention of flooding throughout the borough.

Henley. Oxon.—Ministry held an inquiry

Henley, Oxon.—Ministry held an inquiry into R.D.C.'s application to borrow £202,000 for the construction of a main drainage scheme for Sonning Common. Howard Humphreys and Sons, 8 Francis Street, Westminster, London, S.W.I, are the consulting

minster, London, S.W.I, are the consulting engineers.

Newbury, Berks.—B.C. recommended to approve, in principle, scheme for laying of a fin. foul water sewer, the construction of a small sewage ejector station and a rising main from the pump to the sewer in King's Road. Estimated cost £3,100.

Newton Abbot, Devon.—U.D.C. to prepare detailed scheme for the construction of new sewage disposal works at Forde Road. Estimated cost £104,000.

Tenterden, Kent.—R.D.C. to reinvite tenders.

mated cost £104,000.

Tenterden, Kent.—R.D.C. to reinvite tenders for the High Halden main drainage scheme.

West Hartlepool, Dur. — B.C. recommended to spend £1,169,000 to prevent pollution of local beaches by untreated sewage. It is proposed to construct three pumping stations and lay 9,000ft. of sea-bed pipe sewer to carry sewage well out to sea. The first stage of the work, which it is hoped to start in 1962, will involve the building of the three pumping stations,

pumping stations.

Weston-super-Mare, Som.—B.C. have approved scheme for the prevention of flooding in the Milton Road/Milton Green area. Estimated cost £1,000.

STREET LIGHTING

Croydon, Surrey.—B.C. recommended to approve, subject to Ministry approval, stage 3 of improved lighting programme involving 29 streets. Estimated cost £17.000.

Elstree, Herts.—Parish Council propose scheme for the installation of lighting in Barnet Lane. Estimated cost £1,370.

Meltham, Yorks.—U.D.C. have approved scheme for replacing the existing street gas lamps with electric lamps. Estimated cost £2,057.

CONTRACTS

Full details of the Contracts marked will be found in our Advertisement Columns. BUILDING AND DECORATING
(See also Housing Schemes)

(See also Housing Schemes)

Aberdeen.—Erection of new technical subject wing at Ellon Academy for C.C.: (1)
Excavator, mason, brick, concrete, plaster and roughcast works; (2) carpenter, joiner and ironmongery works; (3) plumber work; (4) electrical work; (5) painter and glazier works. Contractors may tender for one or more trades. Applications immediately to E. L. Williamson, architect and surveyor, 14 Golden Square, Aberdeen.

Armagh. — Erection and completion of a home for old people at Gilford Road, Portadown, for County Welfare Committee. Documents from the offices of W. H. Stephens and Sons, chartered quantity surveyors, 40 High Street, Portadown. Deposit £5 5s. Tenders by Oct. 28.

Aylesbury, Bucks.—Erection of public con-

by Oct. 28.

Aylesbury, Bucks.—Erection of public conveniences, Cambridge Street, and alterations to existing public conveniences, Cattle Market, for B.C. Documents from the Borough Engineer and Surveyor, Friarscroft, 3 Oxford Road, Aylesbury. Deposit £2 2s. Tenders by Oct. 25.

Ballweater.

consuments from the Borough Engineer and Surveyor, Friarscroft, 3 Oxford Road, Aylesbury. Deposit £2 2s. Tenders by Oct. 25.

Ballycastle, Antrim.—External painting at Dalriada Hospital. Documents from T. J. Sheehan, secretary, Dalriada Hospital, Ballycastle. Tenders by Oct. 11.

Batley, Yorks.—Alterations to the housing office, Town Hall, for B.C., comprising the erection and decoration of framed and glazed partitioning, and consequential works to heaving and electrical services, etc. Documents from the Borough Engineer, West House, Hanover Street, Batley. Tenders by Oct. 11.

Belfast.—Supply and fixing of glazed metal screens and doors for City Council. Documents from the Education Architect's Department, 40 Academy Street, Belfast, 1. Tenders by Oct. 20.

Birkenhead, Ches.—Erection of 12 shops and 13 maisonnettes at Woodchurch estate, contract 21, for B.C. Documents from the Borough Architect, 3 Conway Street, Birkenhead. Deposit £2 2s. Tenders by Oct. 12.

Birkenhead, Ches.—Erection of a fire station and two houses on the Woodchurch estate, for B.C. Applications to Gornall, Kelly and Partners, chartered architects, 155 The Albany, Old Hall Street, Liverpool, 3, by Oct. 12. Deposit £2 2s. Tenders by Nov. 7.

Bury, Lancs.—Internal decorations at (a) Walmersley Junior School, (b) public baths, (c) Listerfield House, for B.C. Documents from Borough Engineer, Town Hall, Bury. Caernarvonshire.—Erection of additional laboratory at Bangor Girls Grammar School for C.C. Submit names to the Director of Education, Education Offices, Caernarvon, by Oct. 7.

Deposit £2 2s. Tenders by Nov. 7.

Carlton, Notts.—Erection of the following buildings: Stores and office block, canteen block, garage and workshop block, and stores and garages block, together with incidental works, at the proposed works and ways depot. Greenhill Road, for U.D.C. Documents from the office of the Engineer and surveyor, Council House, Burton Road, Carlton, Deposit £2. Tenders by Oct. 9.

Carmarthenshire.—Erection of a Medway standard classroom unit an

Applications W. I. Lloyd, county architect, County Hall, Carmarthen, by Oct. 8. Tenders by Oct. 31.

Dover.—Improvements and major repairs to three of the Maison Dieu estate properties for B.C. Documents from the Borough Engineer, Brook House, Dover. Tenders by Oct. 17.

Downpatrick, Down. — Supply, fabrication, assembly and erection on prepared foundations of structural steelwork for Head Post Office for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Oct. 17.

Dungannon, Tyrone. — Extensive works of improvement and repairs to 19 cottages at Aghareany, Donaghmore, for R.D.C. Documents from the Engineer to the Council, Rural Council Offices, Dungannon. Deposit £3 3s. Tenders by Oct. 28.

Durham. — Following for C.C.: High Coniscliffe New County Junior and Infant School—erection; Frosterley South County School—(a) additions and alterations, (b) supply and erection of structural steelwork; Newton Avcliffe Maternity and C.W. Centre, School Clinic and Branch Library — erection; Easington Aged Persons' Hostel—(a) cork tile flooring, (b) vinyl asbestos tile flooring. East Boldon Aged Persons' Hostel—(a) cork tile flooring, (b) vinyl asbestos tile flooring, Applications to the County Architect, South Street, Durham, by Oct. 12.

Edenbridge, Kent.—Construction of conveniences at the Lingfield Road recreation ground for Parish Council. Documents from the office of the Clerk to the Council. Sunwayes, Edenbridge. Tenders by Oct. 28.

Edinburgh.—Northern General Hospital, structural alterations and improvements to Ward 4, for Board of Management. Applications to Henry Wylie, 15 Moray Place, Edinburgh, 3, by Oct. 12.

ESSEX.—Erection of Colchester Pettygate County Infants' School, for C.C. The work consists of a single-storey building with steel frame and load-bearing brick walls, estimated cost £42,000. Applications to H. Conolly, county architect, County Hall, Chelmsford, by Oct. 8.

Forehoe and Henstead, Norfolk.—Construction

Oct. 8.

Forehoe and Henstead, Norfolk.—Construction of a central depot at Ketteringham comprising garage, workshops and stores with a total floor area of approx. 13,000 sq. ft. together with incidental site works for R.D.C. Applications to W. A. Jones, engineer and surveyor, Ber House, 158 Ber Street, Norwich, before Oct. 10. Deposit £2 2s. Tenders by Nov. 19.

Freehyddae Learn North Street Street

before Oct. 10. Deposit £2 2s. Tenders by Nov. 19.

Freebridge Lynn, Norfolk.—Improvements to pre-war dwellings, Great Massingham, for R.D.C., consisting of alterations and/or additions, including drainage works, to existing premises to provide bathrooms, etc. Documents from Lea, Milner and Wardley, architects, 4 Market Hill, Huntingdon, or from R. Peck, housing officer, Council Offices, 11 King Street, King's Lynn. Tenders by Oct. 12.

*Friern Barnet, Herts—Erection of 33 garages for U.D.C. Tenders by Oct. 26.

Harrogate, Yorks—Erection of an implement store shed (60ft. by 16ft. by 11ft. to caves) for B.C. The work entails approximately 115 sq. yd. of 6in. reinforced concrete flooring, precast concrete sectional building, together with Bib Six asbestos-cement roofing, Documents from C. E. Fellows, borough engineer, Municipal Offices, Harrogate. Tenders by Oct. 17.

Havant and Waterloo, Hants.—Erection of

neer, Municipal Offices, Harrogate. Tenders by Oct. 17.

Havant and Waterloo, Hants.—Erection of a public convenience at Southwood Road, Hayling Island, for U.D.C. Documents from the offices of the Engineer and Surveyor, I Park Road North, Havant. Tenders by Oct. 17.

*Heston and Isleworth, Middx.—Reconstruction, Bridge Road depot, stage II. for B.C. Deposit £2 2s. Tenders by Nov. 4.

Hornchurch, Essex.—External redecoration of houses for U.D.C.—(Contract I) 105 houses. (2) 128 houses. Applications to the Engineer and Surveyor, Council Offices, Billet Lane, Hornchurch, by Oct. 10. Deposit £2 2s. each, Keighley, Yorks.—Internal painting, second class bath, Municipal Baths, Keighley. Applications to E. G. Felgate, borough architect, Borough Architect's Department, College Street, Keighley. Vorks.—Alterations to the hoiler.

Borough Architect's Department, College Street, Keighley. Deposit £1. Tenders by Oct. 13.

Keighley, Yorks.—Alterations to the boiler house at Keighley Victoria Hospital for Leeds Regional Hospital Board. Applications to the Architect to the Board, Park Parade, Harrogate, by noon, Oct. 11. Deposit £2 2s., cheques payable to the Leeds Regional Hospital Board and crossed. Drawings seen at the office of Richard Pickles and Partner, architects, I Harrison Road, Halifax. Tenders by Nov. 2.

Maidstone, Kent.—Supply, erection and completion of restaurant at Mote Park in the form of a prefabricated demountable sectional timber building for B.C. Documents from the Borough Engineer, Palace Avenue, Maidstone. Tenders by Oct. 20.

Manchester.—Alterations to sanitary annexes, first floor of G. and L. Homes, Newholme, West Didsbury, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester, 2. Tenders by Oct. 13.

Manchester.—Following for Corporation Transport Department: Design and supply of steel bar reinforcement for the reinforced concrete structure for new office building, Hyde Road, Manchester, 12, having an aggregate floor area of some 50,000 sq. ft. distributed over five floors, designed with an in-situ reinforced concrete frame and precast and in-situ concrete floors. The extent of the work required to be covered in the tender will be as follows: (1) The structural design of the complete frame and floor system; (2) the preparation of schedules and drawings in sufficient detail to allow the main contractor to fix the reinforcement; (3) the supply only of steelwork bent and the su rame and noor system; (2) the preparation of schedules and drawings in sufficient detail to allow the main contractor to fix the reinforcement; (3) the supply only of steelwork bent and prepared ready for fixing; (4) the testing of concrete samples. Documents from the General Manager, Manchester Corporation Transport Department, 55 Piccadilly, Manchester, I. Tenders by Oct. 28.

Newtonabbey, Antrim. — Design, supply, fabrication and erection of structural steelwork for a factory at Carnmoney Newtownabbey, for Ministry of Finance. Tenderers should note that tenders will not be considered unless accompanied by steelwork designs. Documents from Room 14. Chichester House, 64 Chichester Street, Belfast, 1. Tenders by Oct. 20.

Northamptonshire. — Brackley Magdalen College School, extensions comprising a two-storey block in stone and brickwork construction for C.C.: (a) Erection, (b) heating, domestic hot and cold water installations, (c) electrical installation. Applications to the County Architect, County Hall, Northampton, by Oct. 10.

Northwich, Ches.—Construction of materials storage hay at the Council done of White

Northwich, Ches.—Construction of material storage bays at the Council depot at Whitehall, Hartford, for R.D.C. Documents from the offices of the Engineer and Surveyor, Whitehall, Hartford, Northwich. Deposit £1 ls. Tenders by Oct. 13.

the offices of the Engineer and Surveyor, Whitehall, Hartford, Northwich. Deposit £1 Is. Tenders by Oct. 13.

Nottingham.—Construction of a refreshment kiosk on the Forest Recreation Ground for City Council. Documents from H. McD. Lawson, acting city engineer and surveyor, The Guildhall, Nottingham. Deposit £2 2s. Tenders by Oct. 26.

Nottingham.—Traditional construction of a hostel for 50 aged people at Beckampton Road, Bestwood Park estate for City Council. Documents from H. McD. Lawson, acting city engineer and surveyor, The Guildhall, Nottingham. Deposit £2. Tenders by Oct. 28.

Orpington, Kent.—Public conveniences of approximately 620 sq. ft., High Street, St. Mary Cray, for U.D.C. Applications to L. W. Freeman, engineer and surveyor, Civic Offices, The Walnuts, High Street, Orpington, by Oct. 10. Deposit £2. Tenders by Nov. 10.

Perth and Kinross.—Painter work required for school properties for Joint C.C. Applications to the Country Architect, County Offices, York Place, Perth, by Nov. 15.

Rugeley, Staffs.—Modernisation of 450 prewar Council houses for U.D.C. The contract will be valued between £75,000 and £100,000. Written applications to The Housing Manager, The Town Hall, Rugeley.

Salford, Lancs.—Proposed multi-storey block of administrative offices at Crescent for City Council. Documents from the City Engineer and Surveyor's Department, Town Hall, Salford, 3. Deposit £5 5s. Tenders by Oct. 24.

Stoke-on-Trent, Staffs.—Proposed College of

neer and Surveyor's Department, Town Hall, Salford, 3. Deposit £5 5s. Tenders by Oct. 24.

Stoke-on-Trent, Staffs.—Proposed College of Catering and Food Technology for City Council: (a) Erection of building; (b) heating, hot water gas and mechanical ventilation; (c) electrical installation; (d) metal windows. Written applications to the City Architect, Kingsway, Stoke-on-Trent, by Oct. 11. Deposit £2 each. Tenders by Nov. 4.

Stornoway, Ross and Cromarty.—Construction on South Beach-Quay Street of a building containing Customs house, Government offices and two-flatted houses of five apartments for Pier and Harbour Commission; several works, comprising demolition and site clearance; concrete, brick, etc.; structural steelwork; joiner, etc.; glazier; slater and rougheast; bituminous felt roofing; plaster; tile and marble; plumber and painter works; central heating work and electrical work. Applications to Gratton and McLean, architects. 21 Woodside Terrace, Glasgow, by Oct. 13. Plans also seen at Municipal Buildings, Stornoway. Sunderland, Dur.—Major extensions to the Sunderland Training Collège for R.C. compris-

also seen at Municipal Buildings, Stornoway.

Sunderland, Dur.—Major extensions to the Sunderland Training College for B.C., comprising a four-storey hostel block, a two-storey teaching block and a single-storey communal block, together with alterations to the existing premises. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s., cheques payable to Corporation. Tenders by Oct. 28.

West Riding.—Erection of a clinic at Thurnscoe for C.C. Applications to the County Architect, Bishopgarth, Westfield Road, Wakefield, by Oct. 14. Tenders by Nov. 14.

Road, Wakeneud, by Oct. 1.

Nov. 14.

West Riding.—Erection of a clinic at
Dinnington for C.C. Applications to the
County Architect, Bishopgarth, Westfield
Road, Wakefield by Oct. 14. Tenders by

Road, Wakefield. by Oct. 14. Tenders by Nov. 14.

West Riding.—Extensive minor repairs, prior to painting, at the Bentley Toll Bar Primary School. Toll Barr, Bentley, near Doncaster, for C.C. Documents from the Divisional Education Officer, County Area Offices, Station Road, Doncaster. Tenders by Oct. 14.

Offices, Station Road, Doncaster. Tenders by Oct. 14.

Whitby, Yorks.—Renovation and extrnsion of the Khyber Pass public conveniences for U.D.C. Applications to the Engineer and Surveyor. The Council Offices, St. Hilda's Terrace, Whitby,
Whitby, Yorks.—Supply and fitting of shop fronts for the three lock-up shops in the Green's Yard redevelopment scheme for U.D.C. Applications to N. T. Rider, architect, 224 Hagley Road, Birmingham, 16.

Woodstock, Oxon.—Erection of a block of seven garages at Cockpit Close, Rectory Lane, for B.C. Documents from Harry W. Smith and Son, architects, 29 George Street, Oxford. Deposit £1 ls.

Worcester.—Schools redecorations, 1960—interior programme for City Council: (Contract 16) Nunnery Wood Secondary Modern

School, F block (part only); (20) St. Clement's School. Documents from City Engineer and Surveyor, 22 Bridge Street, Worcester. Deposit £2 2s., cheques payable to Corporation. Tenders by Oct. 11.

York.—Erection of the following for City Council: (a) A youth centre at Wains Road, Moor Lane estate, Dringhouses, York; (b) 62 dwellings at Windsor Garth, Acomb, York. Documents from E. Firth, city architect, 8 St. Leonard's Place, York. Deposit £3 for either or both, cheques payable to Corporation. Tenders by Oct. 28.

CLOTHING AND TEXTILES

Belfast.—Supply and delivery of the following for City Council: (a) Uniform clothing; (b) caps and hats; (c) waterproof clothing; (d) protective clothing to the several Corporation departments during the 12 months commencing Jan. 1, 1961. Documents from Town Olerk's Office (Room 7), City Hall, Belfast, 1. Tenders by Oct. 20.

Stanley, Dur.—Supply of the following articles of protective clothing of varying sizes for U.D.C.: 185 bib and brace overalls: 172 boiler suits. Tenders, in plain sealed envelopes, endorsed "Protective Clothing," together with samples of materials, not later than Oct. 17, 1960, to J. J. Shipston, clerk of the Council, Council Offices, Stanley, by Oct. 17.

DEMOLITION

Belfast.—Demolition of brick chimneys and other structures at East Bridge Street Electnicity Station for City Council. Documents from the Electricity Department, East Bridge Street, Belfast, 1. Deposit £2 2s., cheques payable to Electricity Department. Tenders by Oct. 14.

Cambridgeshire. - Demolition of The Tri-Cambridgeshire. — Demolition of The Triangle Cottage, Bottisham, at the junction of Tunbridge Lane and High Street, Bottisham contract 6015, for C.C. The cottage and out-buildings are to be completely removed, all materials to become the property of the contractor. Documents from the County Surveyor, Shire Hall Cambridge. Tenders by Oct 21

veyor, Shire Hall Cambridge. Tenders by Oct. 21.

*Chorley, Lancs.—Demolition works for B.C. Deposit £2 2s. Tenders by Oct. 21.

*Harrogate, Yorks.—Parliament Street improvement for B.C. Tenders by Oct. 17.

FENCING

Beccles, Lancs.—Supply and erection of wrought-iron fencing at the following for B.C.: (a) Winton Park (611 lin. yd.); (b) Ryder Playing Fields (84 lin. yd.). Documents from the Borough Engineer and Surveyor, Town Hall Annexe, Irwell Place, Eccles. Tenders by Oct. 13.

Hall Annexe, Irwell Place, Eccles. Tenders by Oct. 13.

Northern Ireland. — Renewal of fencing at the following for Housing Trust: (a) 263 dwellings at Londonderry (Cregagn) site; (b) 174 dwellings at Cregagh. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by Oct. 17.

Romford, Essex.—Erection of approx. 315 lin. yd. of 6ft. high concrete palisade fence and 25 lin. yd. of 6ft. high concrete palisade fence and 25 lin. yd. of 6ft. high chain link fence, together with the demolition of underground air-raid shelters, grading and other incidental works for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s. cheque. Tenders by Oct. 14.

Wanstead and Woodford, Essex.—Supply

Wanstead and Woodford, Essex.—Supply and erection of approximately 450yd., 5ft. chain link fencing and angle-iron gates at Broadmead Road, Woodford Green, for B.C. Documents from the Borough Engineer, Municipal Offices, E.18. Deposit £2. Tenders by Oct. 14.

GAS AND WATER SUPPLY

GAS AND WATER SUPPLY

Birmingham.—Laying and jointing of approximately 4,450yd. of 24in. diameter concrete-lined steel main along Bells Lane, Druids Lane, Maypole Lane and High Street, in Birmingham and Solihull, with the construction of valve chambers, washouts and other ancillary works, contract 269, for City Water Department. Documents from A. E. Fordham, general manager and secretary, City of Birmingham Water Department, Council House, Edmund Street, Birmingham, 3 (P.O. Box 49). Tenders by Oct. 21.

Blackpool, Lanes.—Broughton borehole scheme for Fylde Water Board: (a) Two submersible pumps (1 m.g.d. 300ft.): (c) steel rising main 6in. and 8in. diameter; (d) electrical cables; (e) control switchboard. Documents from the Engineer to the Board, Sefton Street, Blackpool. Tenders by Oct. 18.

Bromley, Kent.—Providing and laying approximately 460 lin. yd. 4in. diameter water main at Norman Park for B.C. Documents from the offices of the Borough Engineer, Municipal Buildings, Bromley. Tenders by Oct. 17.

Ellesmere, Salop.—Welshampton area water supply, contract 3, for R.D.C., including the construction of about 6,900 lin, yd. of spuniron water mains, 3in. and 5in. in diameter, and incidental works. Documents from A. H. S. Waters and Partners, engineers, 25 Temple Row, Birmingham, 2, or E. G. D. Healey, clerk of the Council, Council Offices, Ellesmere, on and from Oct. 10. Deposit £5 5s. Tenders by Nov. 4.

Melford, Suffolk.—Water mains extension, contract 10, for R.D.C., including the provision and laying of about 850yd. of 4in. asbestos-cement water main at Humble Green, Little Waldingfield, about four miles n.e. of Sudbury. Documents from the offices of Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham. Deposit £4 4s., cheques payable to R.D.C. Tenders by Nov. 8.

*Forehoe and Henstead, Norfolk.—Barnham

£4 4s., cheques payable to R.D.C. Tenders by Nov. 8.

*Forehoe and Henstead, Norfolk.—Barnham Broom, etc., water supply for R.D.C. Deposit £5 5s. Tenders by Nov. 8,

*Haverfordwest, Pembs.—Millin water extension for R.D.C. Tenders by Oct. 31.

Hull.—Electrical installation to 132 dwellings, Boothferry estate, for City Council. Documents from City Architect, Guildhall, Hull. Deposit £2, payable to City Treasurer. Tenders by Oct. 12.

Llanfyllin, Mont.— Llansantfrad, etc., water supply extensions for R.D.C. Deposit £5 5s. Tenders by Dec. 2.

HEATING AND VENTILATING

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Keighley, Yorks.—Installation only of steam
boiler and ancillary equipment at Keighley
Victoria Hospital for the Leeds Regional Hospital Board. Applications to the Architect
to the Board, Park Parade, Harrogate, by
noon, Oct. 11. Deposit £2 2s., cheques payable to the Leeds Regional Hospital Board,
and crossed. Drawings seen at the office of
R. W. Gregory and Partners, consultant engineers, 1 Brazennose Street, Manchester, 2,
or at the Hospital.

Peebles.—Installation and setting to work
of a scheme of central heating for the Bonnycraig filter station which is now under construction for B.C. Submit names to Babtie,
Shaw and Morton, consulting engineers, 17
Blythswood Square, Glasgow, C.2.

*Southampton.—Mechanical services at

*Southampton.—Mechanical services at College of Technology for B.C. Apply by Oct. 14. Tenders by Nov. 21.

Tyrone.—Heating installation in the Maternity and Child Welfare Clinic, Dungannon, for County Health Committee. Documents from McCandless and Barton, consulting engineers, 6 Murray Street, Belfast 1. Deposit £3 3s. Tenders by Oct. 17.

HOUSING SCHEMES

*Berkshire. — Road and sewer works for ivate Estate. Deposit £2 2s. Tenders by

Private Estate. Deposit £2 25. Tenuers by Oct. 28.

Blackpool, Lancs.—Grange Park estate extension, contracts 12, 14, 15—erection of 102, or alternatively, 111, one-bedroom flats with stores and 59 garages, to be commenced shortly for B.C. Applications to the Borough Surveyor, Municipal Building, P.O. 17, by 2.30 p.m., on Oct. 14., giving details of contracts of similar size and character carried out, labour force, plant and technical supervisory staff available and trades to be sub-contracted. The contract is to be completed in 75 weeks.

Bognor Regis, Sussex.—Erection of a block

trades to be sub-contracted. The contract is to be completed in 75 weeks.

Bognor Regis, Sussex.—Erection of a block of 34 flatlets for elderly persons, including communal rooms and ancillary works, at Corbishley Road for U.D.C. Applications to the Engineer and Surveyor, Town Hall, Bognor Regis, including a list of building contracts recently carried out and the names of two architects for whom the contractor has worked. Deposit £3 3s. Tenders by Nov. 4.

Buckinghamshire.—High Wycombe, Hatter's Lane School, two caretaker's houses, for C.C. Applications to the County Architect, County Offices, Aylesbury. Deposit £3 3s. Tenders by Oct. 31.

Chesterton, Cambs. — Twelve bungalows at Histon for R.D.C. Documents from the office of the Architect, County Hall, Hobson Street, Cambridge. Deposit £2 2s., cheques payable to R.D.C. Tenders by Oct. 21.

Cookstown, Tyrone. — Completion of two farmworkers' cortages at Loughry Agricultural College for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Deposit £2. Plans also seen at Ministry of Labour and National Insurance Local Office, Fair Hill, Cookstown. Tenders by Oct. 20.

Exeter.—Twenty-eight dwellings (traditional construction) on three sites for City Council: (Site 1)—Calthorpe Road—18 two-storey dwellings; (2) Burnthouse Lane—eight three-storey flats and maisonnettes; (3) Ludwell Lane—two two-storey houses. Applications to H. B. Rowe, city architect, Municipal Offices, Exeter, by Oct. 12.

Folkestone, Kent.—One pair houses (contract 1) one pair houses (contract 2), Tennyson Place, for B.C. Contractors should submit names for either or both contracts to the Borough Engineer, 2-10 West Terrace, Folkestone, by Oct. 10. Deposit £2 2s. each contract. Contractors must state for which of the above contracts they wish to submit a tender.

the above contracts they wish to submit a tender.

Gipping, Suffolk.—Erection of 12 one-bedroom bungalows at Windgap Lane, Haughley, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Needham Market, near Ipswich. Deposit £3. Tenders by Oct. 21.

*Havant and Waterloo, Hants.—Erection of 12 flats, etc., for U.D.C. Tenders by Oct. 17.

Hemel Hempstead, Herts.—Four three-bedroom dwellings and eight one-bedroom flats at Waterside, Kings Langley, for R.D.C. Submit names to the Engineer and Surveyor, The Bury, Hemel Hempstead, by Oct. 14.

*Lincoln.—Road improvement works for City Council. Deposit £2 2s. Tenders by Nov. 4.

Liverpool.—One thousand three hundred

Nov. 4.

Liverpool.—One thousand three hundred and twenty-five dwellings and 756 garages, Macket's Lane, Halewood, for City Council. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s., payable to City Treasurer. Tenders by Oct. 13.

*Southampton.—Three housing contracts for B.C. Apply by Oct. 10.

*Salisbury, Wilts.—Housing, etc., at Stratford Road for City Council, Tenders by Nov. 1.

Road

Saisbury, Witts.—Housing, etc., at Stratford Road for City Council. Tenders by Nov. 1.

*Wem, Salop.—Housing development, Lowe Hill Road for U.D.C. Deposit £5 5s. Tenders by Oct. 28.

Whittlesey, I. of E.—One pair of Homeville type houses at North Green, Coates, and six Homeville type bungalows at South Green, Coates, together with paths, drains, fences, etc., for U.D.C. Documents from the Surveyor, 6 Delph Street, Whittlesey. Deposit £2 2s.

Tenders by Oct. 15.

Wing, Bucks.—One pair type S houses, together with drainage and site works at Church Lane, Cheddington, for R.D.C. Documents from H. A. Rolls, architect, 15 Bridge Street, Leighton Buzzard, Beds. Deposit £2 2s. cheques payable to R.D.C. Tenders by Oct. 25.

Leighton Buzzard, Beds. Deposit £2 2s. cheques payable to R.D.C. Tenders by Oct. 25.

MATERIALS AND SUPPLIES

Bishops Stortford, Herts.—Supply of 500 2½ cu. ft. capacity galvanised dustbins to B.S.S. 792:1947, embossed B.S.U.D.C., delivered free to the depot for U.D.C. Tenders endorsed "Tender for Dustbins," to G. Norman Drinkwater, clerk of the Council, The Council House, Bishop's Stortford, by Oct. 15.

Chingford, Essex.—Supply of the following during the year ending December 31, 1961, for B.C.: (a) Cold asphalt; (b) ballast, washed sand and soft sand; (c) cement; (d) cold bitumen road emulsion; (e) slag tarmacadam; (f) concrete paving slabs; (g) clinker; (h) solid fuel; (i) Brolac paint. Documents from the Borough Engineer, Town Hall, Chingford, London, E.4.

Tenders by Oct. 14.

Isle of Wight.—Supply of replacement school furniture for C.C. Documents from the County Education Officer (FG), County Hall, Newport, 1. of W. Tenders by Oct. 17.

Tottenham, Middx.—Supply of 1,000 galvanised wire mesh clothes storage baskets for B.C. Documents from the Superintendent, Central Baths, Tottenham, N.15.

Windsor, Berks.—Supply and delivery of the following materials and services for the year ending Dec. 31, 1961, for B.C.; (1) Coated macadam; (2) granite chippings; (3) refined tar and bituminous compounds and emulsions; (4) kerbs and paving slabs; (5) river ballast, sand and shingle; (6) sanitary supplies and cleansing materials; (7) chlorine gas and liquid sulphur dioxide; (8) stoneware pipes; (9) roadmen's tools and brushes; (10) dustbins and waste food bins; (11) lory hire; (12) window cleaning; (13) decorators' materials and chain link fenoing; (15) electric lamps; (16) petrol, oil and greases; (17) cleansing of street gullies; (18) protective clothing; (19) builders' materials; (20) coal and coke; (21) electric fittings and cable: (22) towel washing and wrapping and general laundering; (23) garden materials. Documents from the Borough Engineer, Kipling Building, Alma Road, Windsor, upon receipt of a stamped addre

PLANT AND MECHANICAL TRANSPORT

PLANT AND MECHANICAL TRANSPORT Nottinghamshire.—Supply of the following for C.C. Three footpath rollers; two lorries; one roadsweeper/collector; one loading shovel; two roadbreakers; 10 trailer gritters; two snow ploughs; seven mowing machines for use with Ferguson tractors; four tipping trailers for use with Ferguson tractors. Documents from the County Surveyor, Shire Hall, Nottingham. Tenders by Oct. 22.

PLAYING FIELDS, PARKS, ETC.

PLAYING FIELDS, PARKS, ETC.

Bradford, Yorks. — Holme Wood housing estate: Footpath and verge works for City Council, including flagging, soiling and land-scaping work on part III and part IV of the third section. Documents from the City Engineer and Surveyor, Town Hall, Bradford. Deposit £2 2s. Tenders by Oct. 18.

East Riding.—Supplying and planting trees, shrubs and perennial flowers at Barlby County Secondary School for C.C. Applications to the County Architect, County Hall, Beverley. Tenders by Oct. 28.

*Weston-super-Mare, Som. — Construction Byron Road Recreation Ground for B.C. Deposit £2 2s. Tenders by Oct. 28.

RIVER AND FLOOD PREVENTION WORKS

WORKS

Gainsborough, Lines.—Construction of new steel sheet piled wall on the east bank of the River Trent, in the works of Rose Bros. (Gainsborough), Ltd., for Trent River Board. The work comprises the driving of steel sheet piling along the river frontage of approx. 180ft., the piles being between 37ft. and 50ft. in length. All piles to be tied back to concrete anchor blocks and capped with a dwarf reinforced concrete floodwall. Applications to the Engineer, Trent River Board. 206 Derby Road, Nottingham, by Oct. 10. Deposit £5, cheque payable to the board.

ROADS, BRIDGES AND SITE WORKS

*Altrincham. Ches.—Making-up four streets for B.C. Deposit £2 2s. Tenders by Oct. 31.

*Amersham, Bucks.—Remedial road works for R.D.C. Deposit £1. Tenders by Oct. 28.

*Amersham, Bucks.—Caravan site, Whelpley Hill, contract 1 and 2, for R.D.C. Deposit £2 2s each. Tenders by Oct. 21.

Bakewell. Derbys.—Construction of road and sewers at the Eyam housing estate having approximately 1,100 super. yd. base coat tarmacadam and 460yd. run soil and surface water sewers for R.D.C. Documents from Arnold Lowcock, architect and surveyor, King Street, Bakewell. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by Oct. 22.

*Bath.—Newbridge improvement for City Council. Deposit £2 2s. Tenders by Oct. 15.

*Bedfordshire.—C.198, Sundon Road, Houghton Regis, improvement fronting L.C.C. estate for C.C. Deposit £2 2s. Tenders by Oct. 21.

*Bedfordshire.—Improvement at Billington Hill for C.C.

estate for C.C.

Oct. 21.

*Bedfordshire. — Improvement at Billington
Hill for C.C. Deposit £2 2s. Tenders by

*Bedfordshire. — Improvement at Tebworth urn for C.C. Deposit £2. Tenders by

*Bedfordshire. — Improvement at Tebworth Turn for C.C. Deposit £2. Tenders by Oct. 21.

Beeston and Stapleford, Notts.—"Guniting" repairs on 33 columns supporting Chilwell Viaduct on the Nottingham-Birmingham A.453 for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Beeston. Deposit £1 ls. Tenders by Oct. 18.

Belfast. — Following for City Council: (a)

Surveyor, Town Hall, Beeston. Deposit £1 ls. Tenders by Oct. 18.

Belfast. — Following for City Council: (a) Supply and laying of rolled asphalt and mastic asphalt in carriageways. etc.: (b) removal of macadam and old asphalt surfaces from various carriageways. Documents from the City Surveyor's Department (Room 84), City Hall, Belfast, 1. Tenders by Oct. 17.

Bridgend, Glam.—Construction of the roads and sewers on the Caevatry housing site for U.D.C. Documents from D. I. Amos. engineer and surveyor, Council Offices, Glan-Ogwr, Bridgend, Deposit £3 3s. Tenders by Oct. 21.

Bridgend, Glam.—Brackla Ring Road (Tremains Road), stage II, for U.D.C., including the excavation and removal to an adjacent site of approx. 6,000 cu. yd. of material together with the necessary excavation and back filling of a trench for a water main diversion and the grading of the banks of the cutting. Documents from the office of the Engineer and Surveyor, Glan-Ogwr, Bridgend.

sion and the grading of the banks of the cutting. Documents from the office of the Engineer and Surveyor, Glan-Ogwr, Bridgend. Deposit £2 2s. Tenders by Oct. 21.

*Bridgwater, Som.—Footpath and canriageway works, Westover Green, for B.C. Deposit £2 2s. Tenders by Oct. 15.

*Chislehurst and Sidcup, Kent.—Roads and sewers, North Cray Place estate for U.D.C. Apply by Oct. 12. Deposit £2 2s.

Coleraine, Londonderry.—Reconstruction of Lodge Road for B.C., including drawings. specification and bill of quantities prepared by the Borough Surveyor: All necessary excavation work in carriageways, footpaths. etc., the laying of approx. 1,500 lin. yd. of sewer varying in diameter from 12in. to 6in., the laying of 1,000 lin. yd. of 3in. diameter water main. 900 lin. yd. of 3in. diameter water main, and 1,850 lin. yd. of 6in. diameter water main, the pitching, binding and surfacing of some 12,000 sq. yd. of carriageway and some 5,000 sq. yd. of flagged footpath. together with all necessary ancillary works. Documents from the Borough Surveyor, 54 Stone Row. Coleraine. Deposit £5 5s. Tenders by Oct. 15. Dudley. Worcs.—Tipton Road bus loading bay for B.C. The work comprises excava-

tions for and the laying of 220 sq. yd. of reinforced concrete, 100yd. of kerb and an-cillary works. Applications to the Borough Engineer and Surveyor, Council House, Dudley. Deposit £2 2s. Tenders by Oct. 12.

Dudley. Deposit £2 2s. Tenders by Oct. 12. Edinburgh.—Providing and laying asphalt surfaces, etc., following abandonment of tramways in Leith Walk (from Annandale Street to Broughton Street), for City Council. Documents from City Engineer, 329 High Street. Tenders by Oct. 17. *Farnborough, Hants.—Making-up Clockhouse Road for U.D.C. Tenders by Nov. 1. Glamorgan.—Making-up of Beaconsfield Street, Cadoxton, Neath, for C.C. The principal works comprise: Storm water sewer

Glamorgan. — Making-up of Beaconsfield Street, Cadoxton, Neath, for C.C. The principal works comprise: Storm water sewer foin. diameter 120 lin. yd.; carriageway foundations and surfacing 650 super. yd.; footpath foundations and surfacing 500 super. yd.; kerbing 250 lin. yd., together with incidental works. Documents from the County Surveyor, County Hall, Cardiff. Deposit £3. Tenders by Oct. 26.

Gravesend, Kent.—Construction of approx. 250 sq. yd. of flagged footpath, Sun Lane, for Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend. Tenders by Oct. 24.

Hale, Ches.—Making-up of Elmsway, Hawley Drive, The Avenue, Gilbert Road, total approx. length 680yd. for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Hale. Deposit £2. Tenders by Oct. 13.

cil Offices, Hale. Deposit was cil Offices, Hale. Deposit was that the control of the unnamed street leading from Burnley Road to Brow Foot Gate Lane, including carriageway, footway, and drainage works for B.C. Documents from the Borough Engineer, Crossley Street, Halifax. Deposit £1, cheques payable to Corporation. Tenders by Oct. 14.

to Corporation. Tenders by Oct. 14.

Havant and Waterloo, Hants.—Improvement of Manor Road. Hayling Island (B.2149), at Ham Farm Corner, comprising the following work, for U.D.C.: Demolition of existing barn; 370 lin. yd. of kerbing and channelling; 300 sq. yd. of reinforced concrete haunch; 620 sq. yd. footway construction with hot rolled asphalt; 1,696 sq. yd. of carriageway surfacing with lin. thickness hot rolled asphalt; erection of fencing as accommodation works. Documents from the office of the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by Oct. 13.

*Hertfordshire.—Construction of Cicil

*Hertfordshire. — Construction of Cicil Road Flyover-Barnet By-pass for Ministry of Transport. Deposit £10. Tenders by Nov. 8.

Hucknall, Notts, — Improvement and re-construction of Papplewick Lane (C.3213) for U.D.C. The works comprise the laying of Construction of Pappiewick Lame (C.3213) for U.D.C. The works comprise the laying of approx. 1,950 lin. yd. of kerbs; 8,860 sq. yd. of carriageway surfacing; 5,400 sq. yd. of footpath surfacing, stone and macadam foundation to carriageway; the provision of verges; 760 lin. yd. of reinforced concrete sewers, varying from 6in. diameter to 15in. diameter; street gullies and connections; 10 manholes; 34 street lighting columns together with other aprillary.

gullies and connections; 10 manholes; 34 street lighting columns, together with other ancillary and accommodation works. Documents from the office of the Engineer and Surveyor, Watnall Road, Hucknall. Deposit £2 2s. Tenders by Oct. 24.

Huddersfield, Yorks.—Making-up of the following streets for B.C.: The Grove, Fartown; Roydfield Street, Fartown. Documents from A. L. Percy, borough engineer and surveyor, High Street Buildings, Huddersfield. Deposit £1 1s. Tenders by Oct. 17.

Inswich, Suffalk.—Supply, and laying of

Deposit £1 ls. Tenders by Oct. 17.

Ipswich, Suffolk.—Supply and laying of approx. 1.000 sq. yd. of single course hot rolled asphalt (2in. thick), together with a small quantity of balancing material, at Nacton Road for B.C. Documents from the Borough Engineer, 19 Tower Street, Ipswich. Tenders by Oct. 31.

Engineer. 19 Tower Street, Ipswich. Tenders by Oct. 31.

Keighley, Yorks.—Bogthorn estate, Bracken Bank, roads and sewers for B.C., approx. 700yd. in length, including excavation, carriageway and footpath construction, sewerage, etc. Documents from the Borough Engineer's Office, College Street, Keighley. Tenders by Oct. 17.

Keighley, Yorks.—Surfacing of sections of carriageway in hot-rolled asphalt for B.C. Documents from the Borough Engineer's Office, College Street, Keighley. Tenders by Oct. 13.

Leatherhead. Surrey.—Footpath

Office, College Street, Keignley. Tenders by Oct. 13.

Leatherhead, Surrey.—Footpath resurfacing works, comprising approx. 9,200 sq. yd. bituminous surfacing for U.D.C. Documents from the Engineer and Surveyor's Department, Red House, Leatherhead. Tenders by Oct. 17.

*Leighton Buzzard, Beds. — Making-up Brooklands Drive for U.D.C. Deposit £2 2s. Tenders by Oct. 31.

Llanelly, Carms. — Advanced preparation work on the housing site near Rhosnewydd. Tumble, for R.D.C. The work comprises the laying of 2,500 sq. yd. of roads. 996yd. sewers and surface water drains and other ancillary works. Documents from the Architect. 2 Queen Victoria Road, Llanelly. Deposit £2 2s. Tenders by Oct. 11.

*Luton, Beds.—Riddy Lane improvement for B.C. Deposit £2 2s. Tenders by Oct. 21.

Maidstone, Kent.—Resurfacing of High Street, Maidstone, area approx. 4,400 sq. yd., in hot-rolled asphalt for B.C. Documents from the office of the Borough Engineer, Palace Avenue, Maidstone. Tenders by Oct. 17.

Palace Avenue, Maidstone. Tenders by Oct. 17.

Midlothian.—Following for C.C.: Road improvement scheme on the Dewar Town-Gorebridge-Penicuik Road (route B.6372) at Sawmill, near Temple, comprising the realignment of approximately 600yd, of carriageway and footpaths and the construction of a 6ft. diameter reinforced concrete pipe culvert. Documents from the County Surveyor, 32 Palmerston Place, Edinburgh. Deposit £2 2s. Tenders by Oct. 17.

Newcastle-under-Lyme. Staffs.—Preliminary

veyor. 32 Palmerston Place, Edinburgh. Deposit £2 2s. Tenders by Oct. 17.

Newcastle-under-Lyme, Staffs. — Preliminary road and sewer works on the Thistleberry Avenue housing site for B.C.: (a) Excavation for, and provision of, 11.000 sq. yd. carriageway foundation, etc.; (b) excavation for, and provision of, 3.300 lin. yd. of 6in. to 12in. sewers: (c) ancillary works. Documents from the office of the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs. Tenders by Oct. 17.

Newport, Mon.—Completion of roads, footpaths and advanced preparation works on the Ringland Top housing development for B.C. Documents from the office of the Borough Engineer, Civic Centre, Newport, Mon. Deposit £2 2s., payable to Borough Treasurer. Tenders by Oct. 20.

Newtowabbey, Antrim.— Asphalt surfacing of approximately 2,200 sq. yd. of footway at Antrim Road for U.D.C. Documents from the Town Surveyor, Town Hall, Newtownbey, Cont. 20.

of approximately 2,200 sq. yd. of footway at Antrim Road for U.D.C. Documents from the Town Surveyor, Town Hall, Newtownabbey. Tenders by Oct. 17.

Normanton, Yorks.—One thousand yards of tarmac footpath works, Ship Field housing site and Woodhouse Court flatlets, for U.D.C. Documents from the Surveyor, Town Hall. Normanton. Tenders by Oct. 14.

Northampton.—Reconstruction and improvement of approx. 200 lin. yd. of Bedford Road, A.428, for B.C. Documents from the Borough Engineer, Guildhall, Northampton. Deposit £2 2s. Tenders by Oct. 11.

Poole, Dorset.—Making-up approximately one mile of estate roads at Turlin Moor for B.C. Documents from Borough Engineer, Municipal Buildings, Poole. Deposit £2 2s. Tenders by Oct. 11.

Portstewart, Londonderry.—Reconstruction of 1,440yd. of the Strand Road from The Diamond to the Strand Road from The Diamond to the Strand Hotel for U.D.C. Documents from the office of the Town Surveyor. Town Hall, Portstewart. Tenders by Oct. 11.

Portstewarts.—Construction of Construction of Tabot.—Glam.—Construction of Construction of

Documents from the onice of the rowers by veyor. Town Hall, Portstewart. Tenders by Oct. 11.

Port Talbot, Glam. — Construction of concrete embankment, Little Warren, Sandfields estate, for B.C., including a reinforced concrete embankment laid at a gradient, together with a 20ft. wide promenade. The wall is approx. 500yd. long and will require a total of 1,500 cu. yd. of reinforced concrete and 3,600 sq. yd. of surfacing, together with ancillary works. Documents from G. V. Griffiths, borough engineer and surveyor, Municipal Buildings. Port Talbot. Deposit £2 2s. Tenders by Oct. 17.

*Romford, Essex.—Improvement to Lower

Municipal Buildings. Port Talbot. Deposit £2 2s. Tenders by Oct. 17.

*Romford, Essex.—Improvement to Lower Bedfords Road for B.C. Deposit £2 2s. Tenders by Oct. 17.

*\$t. Marylebone.—St. Johns Wood Road/Grove End Road improvement for B.C. Deposit £5 5s. Tenders by Oct. 17.

Seaton Valley, Northumb.—Street works for 130 houses on Westbourne estate, Seaton Delaval, for U.D.C. Documents from the Surveyor, Council Offices, Seaton Delaval. Tenders by Oct. 15.

Sevenoaks, Kent.—Chapmans Road extension Sunbridge, for R.D.C. Construction of a hard-core and tarmacadam carriageway, turnround, footpaths and kerbing for a site for 32 dwellings. The work also includes the provision of 11 new gullies, a 6in. diameter surface water system with four brick manholes and two brick catchpits, the laving-out of grass areas and the construction of three clinkered garage area sites, together with spile boundary fences. Documents from the office of the Engineer and Surveyor, Inglewood, Oak Hill Road, Sevenoaks, Deposit £2 2s. Tenders by Oct. 24.

*Southend-on-Sea, Essex.—Bellhouse Road improvement for B.C. Apply before Oct. 10. Deposit £2.

Staines, Middx.—Widening of part of Feltham Hill Road, Ashford, over a length of

Denosit £2.

Staines, Middx.—Widening of part of Feltham Hill Road. Ashford, over a length of approx. 400 lin. yd., for U.D.C. Documents from the Engineer and Surveyor, 240 London Road, Staines. Deposit £2. Tenders by

Nov. 3.

*Stoke-on-Trent, Staffs. — Making-up of private streets A and B for City Council. Deposit £2 2s. each. Tenders by Oct. 12.

West Lothian.—Site preparation work at The Glebe housing site. Kirkliston, for C.C. Applications to John Calder, county clerk, County Buildings, Linlithgow, by Oct. 12.

Plans seen at the offices of Allison and Hutchison and Partners, architects, 4 Rothesay Terrace, Edinburgh, 3.

West Riding.—Construction and making-up of a total length of 95yd. of the private street known as Tredgold Garth. in the parish of Bramhope, in the rural district of Wharfedale for C.C. Documents from the County Engineer and Surveyor, County Hall Wakefield. Deposit £1 (cheques payable to West Riding Treasurer). Tenders by Oct. 17.

Versaffelies. Recons.—Improvement works

West Riding Treasurer). Tenders by Oct. 17.

Ystradfellte, Brecons.—Improvement works to approximately 80yd. of the Heol-Capten footpath at Pontneathvaughan, for Parish Council. Details from A. G. Taylor, clerk of the Council, 18 Min-yr-Awel, Pontneathvaughan, near Neath. Tenders by Oct. 15.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

*Aylesbury, Bucks. — Main drainage of Hardwick and Weedon. contract 1. for R.D.C. Deposit £3 3s. Tenders by Nov. 7.

*Barnes, Surrey. — Charles Street surface water sewer for B.C. Tenders by Oct. 27.

Beverley, Yorks.—Leven and Tickton sewerage scheme for R.D.C., involving supply and erection of pumping and ejector plant, complete with electric motors, starters and accessories, as follows: Contract 2—two 180 gallons per minute sewage pumps in pumping station at Leven; one 100 gallons per minute sludge pump in sludge pumping station at Leven; one 100 gallons per minute sludge pump in sludge pumping station at Tickton. Contract 3—two 40 gallons per minute sewage ejectors in ejector station 2 at Leven; two 30 gallons per minute sewage ejectors in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station 4 Haista in ejector station 2 at Leven; two 40 gallons per minute sewage ejectors in ejector station at Tickton. Documents from John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6. Deposit £3 3s. each contract (cheques payable to R.D.C.). Tenders by Oct. 24.

*Bridgnorth, Salop.—Highley sewerage and sewage disposal, contract 3, for R.D.C. Deposit £5 5s. Tenders by Nov. 18.

Bromley, Kent.—Construction of approx. 460 lin. yd. of 9in. diameter foul sewer and eight manholes at Norman Park for B.C. Documents from the offices of the Borough Engineer. Municipal Buildings, Bromley. Tenders by Oct. 17.

*Bury St. Edmunds, Suffolk.—Main outfall sewer for B.C. Deposit £5 5s. Tenders by Nov. 3.

"Bury St. Edmunds, Suffolk.—Main outfall sewer for B.C. Deposit £5 5s. Tenders by Nov. 3.

"Chesterfield, Derbys.—Construction of Gleadless-Ford trunk sewer for R.D.C. Deposit £2 2s. Tenders by Oct. 26.

Crosby, Lancs.—Repair of a 54in. diameter cast-iron sea outfall pipe, involving excavation, piling, realigning and supporting pipe on cradles over a length of approximately 120vd at Mariners Road, Blundellsands, for B.C. Documents from Borough Engineer and Surveyor, Town Hall, Waterloo, Liverpool, 22. Deposit £2. Tenders by Oct. 12.

Dungannon, Tyrone.—Construction of the Caledon sewerage scheme for R.D.C.. consisting of laving 297 lin. yd. 15in., 267 lin. yd. 12in., 656 lin. yd. 9in. and 1,725 lin. yd. 6in. diameter sewer pipe, with manholes, and constructing the sewage treatment works and pumphouse, together with 315 lin. yd. 4in. diameter spun-iron rising main. Documents from the Dungannon Rural District Council Offices, Dungannon. Deposit £3 3s.

Tenders by Oct. 13.

Dungannon, Tyrone.—Construction of the Bush sewerage scheme for R.D.C. The work consists of laying 1,030 lin. yd. 6in. and 9in. diameter fire clay pipes, together with manholes and the construction of a sewage treatment works. Documents from the offices of Dungannon Rural District Council, Offices, Dungannon. Deposit £3 3s. Tenders by Oct. 28.

Gainsborough, Lincs.— Construction of three sewerage schemes in and near Bridge Street, Trinity Street and Mayflower Close for the proper severage schemes in and near Bridge Street, Trinity Street and Mayflower Close for the proper severage schemes in and near Bridge Street, Trinity Street and Mayflower Close for the proper severage schemes in and near Bridge Street, Trinity Street and Mayflower Close

Oct. 28.

Gainsborough, Lincs. — Construction of three sewerage schemes in and near Bridge Street, Trinity Street and Mayflower Close for U.D.C. The work includes construction of 270yd. of 6in. diameter concrete tube sewer; 253yd. of 9in. diameter concrete tube sewer; 71yd. 15in. diameter concrete tube sewer; 73vd. of 18in. diameter concrete tube sewer; 3vd. of 18in. diameter concrete tube sewer; and the construction or alteration of 21 manholes. Documents from the office of the Engineer and Surveyor, Council Offices, 6 Lord Street, Gainsborough. Deposit £2 (cheque payable to U.D.C.). Tenders by Oct. 17.

Godstone, Surrey.—Events

Oct. 17.

Godstone, Surrey.—Furzefield Road sewerage scheme, Baldwins Hill. stage 1, for R.D.C., including the laying of approximately 400yd. of 9in. and 7in. diameter stoneware pipe, together with manholes, etc. Documents from the Engineer and Surveyor, Council Offices, Oxted. Deposit £2 2s. Tenders by Oct. 12.

Havant and Waterloo. Hants.—Construction of approximately 340 lin. yd. of 15in, diameter stones.

meter foul water sewer and ancillary works connected therewith at Fishery Lane, Hayling Island, for U.D.C. Documents from the office of the Engineer and Surveyor, 1 Park Road North, Havant. Tenders by Oct. 13.

Haverhill, Suffolk.—Reconstruction of the existing sewage disposal works, stage 2, including a new pumping station, inlet works, sedimentation tank, filter beds, humus tanks and sludge drying beds, together with the modification of existing units, and other ancillary work for U.D.C. Documents from the offices of Howard Humphreys, consulting engineers, West Street, Epsom, Surrey, until 4 p.m., Oct. 21. Deposit £3 3s., cheques payable to U.D.C. Plans also seen at the Council Offices, Haverhill. Tenders by Oct. 28.

Hexham, Northumb.—Laying 620 lin, yd. of 18in. diameter concrete pipe sewer and the construction of eight manholes in Aydon Road. Corbridge, for R.D.C. Documents from the Engineer and Surveyor, Prospect House, Hexham. Tenders by Oct. 17.

**Lleyn, Caerns.—Extension of Sewer at Garndolbenmaen for R.D.C. Deposit £3 3s. Tenders by Oct. 25.

Maldon. Essex.—Following works in the parish of St. Mary, contract 4, for B.C.: (a) Approximately 580yd. of 24in., 710yd. of 18in., 410yd. of 15in., 650yd. of 9in. and 610yd. of 6in. concrete and glazed stoneware sewers; (b) 29 concrete tube manholes; (c) brick overflow chamber; (d) minor reconstruction of existing brick manholes. Documents from Grantham, Brundell and Farran, engineers. 20 South Parade, Doncaster. Deposit £2 2s. Plans also seen at Municipal Offices, Maldon. Tenders by Oct. 17.

*Neston, Ches.—Burton Village sewerage and sewage disposal works for U.D.C. Deposit £9 (d) 20 (d)

STREET LIGHTING

Billingham, Dur.—All or any of the following contracts for U.D.C.: (L.1) Supply of 15 concrete columns. A.19: (L.2) supply of 69 steel columns. A.19: (L.3) supply of 140-Watt sodium lanterns, complete with lamps and auxiliary gear: (L.4) supply of 400-Watt mercury vapour lanterns, complete with lamps and auxiliary gear; (L.5) provision and laying of cables, including servicing columns and lanterns. A.19: (L.6) erection of 84 columns and lanterns, columns, loculing servicing columns. New Road; (L.8) erection of 33 columns. New Road; (L.9) provision and laying of cables, including servicing columns. Haverton Hill Road; (L.10) erection of 59 columns and lanterns. Haverton Hill Road: (L.11) supply of 92 concrete columns. New Road and Haverton Hill Road.

Documents from the Engineer and Surveyor, Council Offices, Haverton Hill, Billingham. Deposit £1 Is. each. Tenders by Oct. 24.

Chelmsford, Essex.—Following for R.D.C.: Provision and erection of 64 concrete group A street lighting columns, complete with side entry lanterns and ancillary equipment, on the London-Great Yarmouth trunk road, A.12, at Mountnessing, near Brentwood, Essex. The contract will include the provision of reinforced concrete columns and brackets giving a mounting height of 25ft; 140-watt sodium discharge lamps; totally enclosed pattern lanterns; all control gear and necessary wiring. Documents from Engineer and Surveyor, Council Offices, New London Road, Chelmsford. Deposit £2 2s. Tenders by Oct. 17.

Road, Chelmsford. Deposit £2 2s. Tenders by Oct. 17.

*Ellesmere Port, Ches.—Street lighting, contract 298, for B.C. Tenders by Oct. 24.

Ellon, Aberdeens.—Supply and erection of 21 street lighting units, complete, on trunk road A.92 within the burgh for B.C. Documents from Burgh Surveyor, Station Road, Ellon. Tenders by Oct. 14.

Hitchin, Herts.—Erection and commissioning of approx. 30 class A and 65 class B lighting units in various parts of the urban district for U.D.C. Documents from Surveyor to the Council, Council Offices, Brand Street. Hitchin. Tenders by Oct. 14.

Kirkburton, Yorks.—Supply and installation of 88 lighting points on Penistone Road (second part) for U.D.C. Each point consists of a 200-W sodrum discharge lamp mounted on a 35ft. steel column. Documents from the Surveyor, Town Hall, Kirkburton.

Tenders by Oct. 19.

Surveyor, Town Hall, Kirkburton. Tenders by Oct. 19.

Knaresborough, Yorks. — Street lighting Bond End/Boroughbridge Road. Supply and erection of 50 group A concrete columns with sodium discharge lamps and control gear, for U.D.C. Documents from the Engineer and Surveyor, Knaresborough House, Knaresborough, Tenders by Oct. 17.

*Leighton Buzzard, Beds.—Street lighting improvement for U.D.C. Deposit £2 2s.
Tenders by Oct. 31.

*St. Faith's and Aylsham, Norfolk.—Street lighting equipment for R.D.C.
Seaton Valley, Northumb.—Supply and erection of 327 lighting units and for the supply only of 132 lighting units for U.D.C. Documents from the Surveyor, Council Offices, Seaton Delaval, Whitley Bay. Tenders by Oct. 22.

Sunderland, Dur.—Laying of approximately 2,000 lin. yd. of 4, 3- and 2-core paper insulated lead covered steel tape armoured cable for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. Tenders by Oct. 19.

*Whitchurch Salop.—Street lighting scheme, phase 1, for U.D.C. Deposit £2 2s. Tenders by Oct. 26.

INTERNATIONAL CONTRACTS

Iraq.—Main civil engineering works, for the construction of an international airport at a site at Qasr-el-Meleh, approximately 20 km. west of the centre of Baghdad, for Ministry of Communications. The principal works consist of the construction of the following: A runway, 3,000 m. long and 45 m. wide; a main taxiway; exit taxiways and aprons; secondary access roads; complete airfield lighting installation; water mains; fire mains; complete sewerage system with treatment plant. Documents from the Directorate General of Roads and Bridges, Baghdad, between Sept. 28 and Dec. 15, upon payment of £100 which is not returnable. Documents may be inspected on or after Sept. 28 at the offices of Sir Alexander Gibb and Partners, Queen Anne's Lodge. Westminster, London, S.W.I. Tenders by Jan. 15.

Westminster, London, S.W.I. Tenuers Jan. 15.

Mauritius.—Design, supply and delivery—in a period of 12 months—of between 1,000 and 3,000 austerity cyclone-resistant houses, the total cost of which shall not exceed £250 per unit, which includes provision of foundations, floor slab and erection of superstructure by the Authority, contract 1/60 for the Central Housing Authority. Apply immediately for particulars to: The Crown Agents, 4 Millbank, London, S.W.I. quoting reference O/EC3/Mauritius 9725. Units are to be prefabricated, probably in timber, suitable for erection by the Authority on prepared sites. Tenders by Nov. 15.

Nov. 15.

Rangoon, Burma.—The Board of Management for the Port of Rangoon invite crane building firms to tender for the supply, delivery and supervision of erection in Rangoon of six three-ton electric level-luffing nortal cranes for operation on their Sule Pagoda Wharves 5, 6 and 7, contract 3. Documents from Sir Alexander Gibb and Partners, consulting engineers, Queen Anne's Lodge, Westminster, London, S.W.1. on payment of £8 per set Tenders by Jan. 7 to Rangoon.

AWARDS

BUILDING AND DECORATING (See also Housing Schemes)

(See also Housing Schemes)

Aberystwyth, Cards.— Reconstruction of the Town Hall for B.C.—Norwest Construction Co., Ltd., Ruthven Road, Litherland, 'Liverpool, £53,955.

Alston, Cumb.—Additions to Alston Cottage Hospital for Newcastle Regional Hospital Board. Plans by N. Edgar, regional architect—H. Kearton and Son, Market Place, Alston, £3,000.

Armagh.—Erection of an additional class.

tect—H. Kearton and Son, Market Place, Alston, £3,000.

Armagh.—Erection of an additional class-room to Killylea County Primary School for Co. E.C. G. D. Taylor, architect. 27a English Street, Armagh—S. and G. Lester, English Street, Armagh, £1,763.

Armagh.—Improvements (including heating and plumbing installations), Collone County Primary School, for Co. E.C. G. D. Taylor, architect, 27a English Street, Armagh—Building—A. A. Quinn, The Square. Tandragee, £11,150: heating and plumbing—1. W. Somerville, Scotch Street, Armagh, £1,240. £1.240.

E1.240.

trusley, Yorks.—Erection of the first phase of a cog-rolling mill and billet-grinding plant at Grange Lane, Stairfoot, for C. G. Carlisle and Co., Ltd.—Dyson and Co. 13 Alzlewood Road, Sheffield, 8. Barnsley, Yorks.

13 Alzlewood Road, Sheffield, 8.

Basildon, Essex. — Erection of a factory for York Shioley, Ltd.. North Circular Road, London, N.W.2. Ove Arup and Partners, consulting engineers, 8 Fitzroy Street, Iondon, W.I.—W. and C. French, Ltd.. Buckhurst Hill, Essex. Work has com-

Buckhirst Hift, Essex. Work has commenced.

Belfast.—Erection of a new building to form a bookstack annexe to the Central Public Library Royal Avenue. for City Council John Wright, surveyor, 2 Linen Hall Street. Belfast, 2. H. and J. Martin, Ltd., Ormeau Road, Belfast.

Berkshire.—Erection of a junior school Marlow Road, Furze Platt for E.C.—I. Nones and Sons. Hall's Gardens, Windson Road, Maidenhead, £57.717.

Bolton Lages Freeding of a ghorning block

Cecil Square, Margate, £998.

Bolton, Lancs.—Erection of a shopping block with offices over at Victoria Square/Exchange Street for The Arndale Property Trust Ltd.—Leslie and Co., Ltd., 260 Swam Arcade, Bradford, 1. Gerald M. Baxter (staff architect) in association with Shingler and Risdon, 47 Bedford Row, London, W.C.I. R. G. McCaffrey, quantity surveyor. Ocean Chambers, Piccadilly, Bradford, 1; and F. R. Bullen and Partners. Dacre House. Dean Farrar Street, Westminster, London, S.W.1 are the consulting engineers.

Bootle, Lancs.—Extensions to Civil Defence.

Dacre House. Dean Farrar Street, Westminster, London, S.W.1 are the consulting engineers.

Bootle, Lancs.—Extensions to Civil Defence Headquarters, Knowsley Road, for B.C.—Direct Labour, £10.677.

Bradford, Yorks.—Following for City Council: Adaptation for conversion of Wyke Church School into clinic premises—Whitaker and Leach, Ashfield Road Works. Thornton, Bradford, £2.857; erection of 28 new study bedrooms on second floor of residential blocks, east and west wings of the Margaret McMillan Memorial Training College (phase IV)—Pickles Bros. (Builders), Ltd.. Mile Thorn, Gibbet Street, Halifax, £13.961; internal painting work at Institute of Technology—D. E. Baggley and Co., Ltd., 111 Legrams Lane, Bradford, 7. £1.074; adaptation to provide additional lecture rooms at the Institute of Technology and the installation of a lift—Higgs and Hill, Ltd.. 33 St. Paul's Street, Leeds, 1, £26,552-work in connection with extension of greasing plant to provide new paint shoo at Hammerton Street deoot—Thomas Obank and Sons, Ltd., Thackley, Idle, £4.176; internal painting of various schools—Drummond Road Secondary Modern Senior Iunior and Infants—Hudson and White, Ltd., Sawrey Place Works, Little Horton Lane, Bradford, £1.568, £550. £660, respectively: Clayton Secondary Modern (Boys' and Girls' Departments)—D. Baggley and Co., Ltd., £900.

Erection of nursery school at Canterbury Avenue—W. J. Simms, Sons and Cooke. Clay Girls' De. £900.

Erection of nursery school at Canterbury Avenue—W. J. Simms, Sons and Cooke. Ltd. Havdn Road. Sherwood, Notts.. £18.641. All recommended. £18,641

Burnley, Lancs.—Provision of sterilising block and extensions to operating theatre unit at General Hospital for Manchester Regional Hospital Board—Mullen and

Burnley, £21,366 (recommended, subject to Ministry approval).

to Ministry approval).

Carlisle, Cumb.—Erection of television centre for Border Television, Ltd. E. M. Lawson, architect. Barras Buildings, Barras Bridge, Newcastle upon Tyne—Cussins (Contractors), Ltd., The Drive, Gosforth. Newcastle upon Tyne.

Carnforth, Lancs.—Erection of science laboratory at new Carnforth County Secondary School. for Co. E.C.—H. Dawson, Lightburne Park Works, Dragley Beck, Ulverston. £969.

E969.

Cheltenham, Glos.—Erection of the Cross
Hands public-house at Tewkesbury Road for
the Cheltenham and Hereford Breweries.
Ltd.—Ford and Weston, Ltd., 34 Imperial
Square, Cheltenham. Estimated cost Imperial £29,992

Cheltenham, Glos.—Internal redecoration of the Town Hall for B.C.—Ford and Weston, I.td.. 34 Imperial Square, Cheltenham, £1,386 (recommended).

(recommended).

Ches.—Reinstatement of medicar

ches.—Reinstatement of medicar

chester Regional Crewe. rewe, Ches.—Reinstatement of medical superintendent's home at Cranage Hall. Holmes Chapel, for Manchester Regional Hospital Board—C. Potterton and Son, 16 Upton Avenue, Cheadle Hulme, £2,563 (recommended, subject to Ministry ap-

(recommended, subject proval).

roydon, Surrey. — Erection of four shops with maisonnettes over and four garages at 134-138 Upper Shirley Road, A. C. Bayley. architect, 2 Huntingfield. Addington—H. W. West and Sons, Ltd., 139 Shirley Road, Croydon. Croydon.

Shirley Road, Croydon.

Exeter.—Erection of a further block of six offices at Cattle Market and General building work (second stage) of the new Lower Market and Corn Exchange for City Council—R. L. Rendle. Ltd.. £3.207; and Woodman and Son (Builders), Ltd., Haven Road, Exeter, £143.68 (recommended).

Glasgow.—Civil engineering work in connection with a new plate mill at Clydebride Steelworks. Cambuslang, for Colvilles, Ltd., 195 West George Street, Glasgow—Murdoch Mackenzie, Ltd., Motherwell. Estimated cost £1m.

cost £1m.

Hastings, Sussex.—Erection of new church hall at St. Clement's Church. Halton for Parochial Church Council. Norman A. E. Wyatt. architect, 2 Castle Hill Road—Pronerties (Hastings), Ltd., Priory Road, £5.375. Work commenced.

Kingston-upon-Thames, Surrey.—Erection of six shops with offices above at the corner of Richmond and Cromwell Roads for Murrayfield Real Estate Co. J. Seymour Harris and Partners. architects. 3-4 Greenfield Crescent, Five Ways, Birmingham. 15—Iames Miller and Partners, Ltd., Pump Lane. Haves, Middx.

Leicester.—Erection of an additional shop at

Leicester.—Erection of an additional shop at Thurnby Lodge estate shopping centre for City Council—W. Potter (Contractors), Ltd., £3,101 (recommended).

London.—Erection of an office building at Ludgate Hill for the Colonial Mutual Life Assurance Society. Trehearne and Norman Preston and Partners, architects, 83 Kingsway. London, W.C.2.—Trollope and Colls. Ltd., 1 Noble Street, E.C.2. Work com-

menced.

Manchester.—Following for Regional Hospital Board: Alterations to 829-831 Rochdale Road Harpurhey to provide accommodation for Beech Mount Maternity Hospital—I. Blackshaw and Sons. 41 West Wynford Street. Salford, 66.498: enclosing the link corridor to the main hospital and the provision of a visitors' waiting space in the new out-patients'. X-ray and physiotherapy department at Victoria Memorial Jewish Hospital—G. W. Dawson and Co. Ltd., Harpurhey Road, Crumpsall. Manchester. 8, 43,991 (recommended, subject to Ministry approval).

Mansfield, Notts.— Redecoration of the

Mansfield, Notts. — Redecoration of auditorium and foyer at the Civic Hall B.C.—Fosters. Ltd., Nottingham, & (recommended).

B.C.—Fosters, Ltd., Nottingnam, £838 (recommended).

Middlesbrough. — Erection of eight-storey building comprising offices, conference suite, showrooms, etc., Borough Road—John T. Bell and Sons, Ltd., Market Street Chambers, Newcastle upon Tyne.

Newbury, Berks.—Conversion of the Old Rectory into four flats for B.C.—F. D. Carter and Partners. Ltd., Up Green Inkpen, Newbury, £2.292 (recommended).

Newport, Mon.—Extensions at Caerleon Training College for C.C. Sydney Leyshon, county architect—A. Arthur and Son. Ltd., Tabor Road, Maesyewmmer, Hengoed.

North Shields, Northumb.—Construction of new hailing station in the River Tyne for Llovd's Register of Shipping—J. G. Thompson, and Sons (Contractors), Ltd., Fowler Street, South Shields.

Northumberland. — Construction of substructure for the Forest Hall County Infant School for C.C. C. C. Brown, county architect—Cawood Wharton and Co., Ltd., Harrogate, £17,057.
Northwich, Ches.—Provision of casualty department at Victoria Infirmary for Manchester Regional Hospital Board—Exors. of S. Appleton, Northwich, £12,040 (recommended, subject to Ministry approval).
Nuneaton, War.—Erection of central library at Church Street for B.C.—G. E. and W. Wincott, Ltd., 64 Coton Road, Nuneaton, £80,158 (recommended).
Ormskirk, Lanes.—Erection of R.C. schools in Chapel Lane, Burscough—J. and R. Woods, 15 Knowsley Road, Burscough, Ormskirk.
Oxford.—Completion of changing accommodation and cafe at Hinksey Pools for City Council—Symm and Co., Ltd., 43 Little Clarenden Street, Oxford, £28,223 (recommended, subject to Ministry approval).
Port Erin, I. of M..—Renewing the roof of the Herdman Institute for the Commissioners—Parkinsons, Ltd., Douglas, I. of M., £773.
Prudhoe-on-Tyne, Northumb.—Phase 3 development at Prudhoe and Monkton Hospital Board: (a) Erection of villa for spastics, villa for epileptics and extension of nurses' home—John Twiname, Ltd., Cockermouth, £142,979; (b) erection of four children's villas, school, villa for psychotics, and two houses and external works—John Jackson and Sons, Newcastle, £283,288. Plans for (a) by P. H. Knighton, architect to the board; (b) S. W. Milburn and Partners, architects, 9 The Esplanade, Sunderland. Thos. Barrett, Sons and Partners, 33 High Bridge, Newcastle upon Tyne, 1, are the quantity surveyors for both projects.

Rochester, Kent.—Corn Exchange improvement scheme for City Council, comprising (') demolition and rebuilding of the old Corn-Exchange; (2) construction of an extension to the library. consisting of a bookstore and new junior library; (3) installation of a new heating and lighting system; (4) general repairs. improvements and redecorations. I. A. Peel, city Surveyor—H. Goodsell and Son. Ltd., 32 Sandling Road, Maidstone, Kent, £35,627. Work about to commence

£2,339 (recommended, subject to Ministry approval).

Skelmersdale, Lancs.—Erection of branch library for U.D.C.—Bilow Contractors, Ltd., 18a Millgate, Wigan, £16,281.

Southampton.—Following for B.C.: Erection of heat treatment laboratory at the Technical College. Grove Street—Harrison and Rose, Ltd., Rownhams Lane, North Baddesley, Southampton, £2,697 (recommended); L. S. Tuffin, £2,161; G. E. Prince and Son, Ltd., £2,201; G. Carter and Sons, Ltd., £2,206; H. Stevens and Co., Ltd., £2,679; Lawrence Jones and Partners, Ltd., £2,679; John Lewis Building, Ltd., £2,720.

Extending the steel-framed Coseley building for use as garage accommodation at

Extending the steel-framed Coseley building for use as garage accommodation at Chapel Wharf Highways Depot—W. and R. Whittington. 38 Shirley Avenue, Southampton. £1,121: internal redecorations at King Edward VI School—R. H. and A. W. J. Hinton. Wetheral Deacon Crescent. Bitterne, Southampton. £6,433: erection of central waterwork depot—H. Stevens and Co. Ltd., Millbank Works, Millbank Street. Southampton. £105,681: rebuilding of the retaining wall along the east side of The Fosse. Bitterne Manor—Smith and Ray., 19 Dover Street, Southampton, £1,020 (recommended).

mended).

affordshire. — Construction of concrete block, brickwork and concrete walls between Tean River Bridge and Oakhill. trunk road A.50, at Upper Tean, for C.C.—Langley Bros., 43 Werrington Road. Bucknall. Stoke-on-Trent. Work about to Staffordshire.

Bucknall. Stoke-on-Trent. Work about to commence.
wansea.—Adaptations to provide additional training acommodation at the Training College for B.C.—Direct Labour, £18.000.
windon, Wilts. — Erection of a pedestrian shopping precinct for Oddenino's Property and Investment Co. The scheme includes a six-storey office block. 28 shops, three supermarkets, a store, hotel and a two-stoney car park. Shingler and Risdon, architects.
42 Bedford Square. London, W.C.1—Richard Costain, Ltd., 111 Westminster Bridge Road,

London, S.E.l estimated cost £lm. Work commencing within two months.

Tipton, Staffs—Converting the brick-built shelter at rear of public baths into dressing accommodation for B.C.—Harris Bros. (Builders), Ltd., Bagnall Street, Tipton, £863 (recommended).

Wakefield, Yorks.—Repainting of 194 houses at Crigglestone for R.D.C.—R. Kemp, Mirfield.

Wakefield, Yorks.—Repainting of 194 houses at Crigglestone for R.D.C.—R. Kemp, Mirfield.

Walthamstow, Essex.—Following for B.C.: Erection of 105 garages in three courts at The Drive redevelopment scheme together with a children's playground—Direct Labour, £22,957; structural floors, etc., at 16-18 Prospect Hill—Brick Flooring Constructions, Ltd., 14 Clifford Street, London, W.I. £3,630; supply and erection of a prefabricated building to serve as a community centre at The Grange—Vic Hallam, Ltd., Valley Works, Langley Mills, Notts., £899; offices and shops at Hoe Street redevelopment (stage II) — Whyatt (Builders), Ltd., 225 Streatham High Road, London, S.W.I8, £135,037; conversion and repair of (a) 5 and 29 'Addison Road, (b) 50 The Avenue, and (c) 48 Lynmouth Road—(a) Chisnall Bros., 51 Queens Road, Loughton, £4,014. (b) and (c)—Direct Labour, £2,126 and £784 (all recommended).

Warminster, Wilts.—Alteration and decoration of the Water Board offices at 55 Boreham Road, contract 2 for West Wilts, Water Board—H. C. Bissex, Midsomer Norton, near Bath, £3,083 (accepted, subject to Ministry approval); Diamond Decorators, Ltd., £3,537; Wheeler and Dredge, £3,967; J. T. Parsons and Son, Ltd., £4,276; R. Butcher and Sons, £4,722; P. Hale, £4,878; T. Holdoway and Sons, Ltd., £5,126; Wheeler and Co., £6,000. Work commencing Nov. 1.

DEMOLITION

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Bradford, Yorks.—Demolition of following for City Council: Property bounded by Booth Street, Leeds Road, Peel Place and Hall Ings (block G) and to take down in tact all carved stone blocks in the Leeds Road and Peel Place frontages and delipot—w. W. Potter, 23 Shellbank Lane, Northope, Mirfield, £3,300; outbuildings at Browning Street School—Glenn Demolition, Bradford, £50 (both recommended).

Cheltenham, Glos.—Demolition of 6 and 8

Bradford, £30 (both recommended).

Cheltenham, Glos.—Demolition of 6 and 8 Bath Parade for B.C.—W. H. Chambers, Uxbridge, Middx., £65 (recommended).

Chester. — Demolition of properties in the Newtown area and Oulton Place area for City Council—Engineers (Ruabon), Ltd., 45 King Street, Wrexham, £736 and £1,637 (recommended).

Newtown area and Outton Place area for City Council—Engineers (Ruabon), Ltd., 45 King Street, Wrexham, £736 and £1,637 (recommended).

Exeter. — Demolition of air raid shelters at Trinity Green and Smythen Street for City Council — Wadsworth (Demolition and Excavation), Ltd., Sidmouth Road, Exeter, £120 and £155 (recommended).

Stoke-on-Trent, Staffs. — Demolition of Chatterley House Old Hall Street, Hamley, for City Council—Potteries Demolition Co., Ltd., 143 Etruria Street, Stoke-on-Trent, to pay to Council £20.

Walthamstow, Essex.—Demolition of 21 Hoe Street, 54 Browns Road, 2 Grosvenor Park Road, 1 and 3 Apsley Road, 37-49 Brandon Road and 88-94 Collard Road, for B.C.—A. R. Wright and Son, Ltd., 18a Coopers Lane, London, E.10, £1,132 (recommended).

ELECTRICAL

Bury, Lancs.—Provision of fire alarm system at General Hospital for Manchester Regional Hospital Board—Wade and Mills, Ltd., 195 Leeds Road, Oldham, £1,936 (recommended subject to Ministry approval).

E.G.B.—The Central Electricity Generating Board have placed contracts during the past two months for power stations, transmission lines and transforming stations, amounting in the aggregate to approx. £13,642,000. The principal contracts include:

Frestiniog pumped storage scheme—steel tunnel kinnings and penstocks protective coatings—E. and F. Richardson, Ltd.

Blyth B power station—construction of two reinforced concrete chimneys—The Mitchell Construction Co., Ltd.

Thorpe Marsh Power Station (near Doncaster)—66 kV., 2,500 MVA switchgear and ancillary equipment—Associated Electrical Industries, Ltd.; two reinforced concrete chimneys—Bierrum and Partners, Ltd.; floor slab and other floors and foundations—The Mitchell Construction Co., Ltd.

Aberthaw Power Station (near Barry Glam)—fire extinguishing equipment

Aberthaw Power Station (near Barry, Glam.)—fire extinguishing equipment—G. N. Haden and Sons, Ltd.
Drakelow C Power Station (near Burton-on-Trent) — overhead electric travelling

cranes for turbine house—Herbert Morris, Ltd., structural steelwork—Peirson and Co. Ltd.

Rugeley Power Station—one 120,000 kW. turbo-generator, No. 3, feed-heating plant and dry cooling tower—The English Electric Co., Ltd.

Willington A Power Station (near Derby)—ash disposal pit and extension to pipelines—lohn Cochrane and Sons, Ltd.

Bankside B Power Station—h.p. pipework and valves—Stewarts and Lloyds, Ltd.; booster and boiler feed pumps—The Harland Engineering Co., Ltd.

Richborough Power Station—three cooling towers—Film Cooling Towers (1925), Ltd.; superstructure—Turiff Construction Corporation, Ltd.

Exeter Sub-station—one 180 MVA. 275/132 kV transformer—Hackbridge and Hewittic Electric Co., Ltd.

Taunton Sub-station—one 180 MVA. 275/132 kV transformer—Hackbridge and Hewittic Electric Co., Ltd.

Austin-Canons Sub-station—two 90 MVA. 132/33 kV transformers—Fuller Electric, Ltd.

Aylesbury Sub-station—two 90 MVA. 132/33 kV transformers—Hackbridge and Hewittic Electric Co., Ltd.

Barking Sub-station—two 90 MVA. 132/33 kV transformers—Fuller Electric, Ltd.

Barking Sub-station—four 75 MVA. 275/132 kV transformers—Associated Electrical Industries, Ltd.

Templeborough Sub-station—four 75 MVA. 275/132 kV transformers—Associated Electrical Industries, Ltd.

Barton Sub-station—one 60 MVA. 132/33 kV transformer—Formati, Ltd.

Carrington "Local" Sub-station—one 45 MVA, 132/33 kV transformer—Ferranti, Ltd.

Carrington "Local" Sub-station—one 45 MVA, 132/31 kV transformers and earthing transformer—Formatic Ltd.

Fawley North Sub-station—two 45 MVA, 132/11 kV transformers and earthing transformers—associated Electrical Industries, Ltd.

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auxiliaries—Associated Electrical Industries, Ltd. Fawley North Sub-station—two 45 MVA, 132/11 kV transformers and earthing transformers—C. A. Parsons and Co., Ltd.; extensions to 132 kV switchgear connections and protection—Associated Electrical Industries, Ltd. Swansea North Sub-station—one 45 MVA, 132/33 kV transformer and earthing transformer—Fuller Electric, Ltd.; 132 kV outdoor switchgear—Associated Electrical Industries, Ltd. Kirkby Sub-station—132 kV outdoor switchgear—Associated Electrical Industries, Ltd. Oswestry Sub-station—132 kV, 3,500 MVA switchgear—Associated Electrical Industries, Ltd. Kingston Sub-station—132 kV, 3,500 MVA switchgear—Associated Electrical Industries, Ltd. High Marnham Sub-station—280/275 kV

switchgear—Associated Electrical Industries, Ltd.

High Marnham Sub-station—380/275 kV isolators and connections—Associated Electrical Industries, Ltd.

Monk Fryston-High Marnham—380 kV experimental line work—British Insulated Callender's Cables, Ltd.

Whitson Sub-station—275 kV overhead lines—Balfour Beatty and Co., Ltd.

Kirkby/Bootle—cables—British Insulated Callender's Cables, Ltd.

Cheltenham, Glos.—Electrical installation in 38 dwellings at Maud's Elm for B.C.—M. B. Owen, 40 Marlborough Road, Gloucester, £1,298 (recommended).

Hartlepool, Dur.—Electrical installation in 56 houses being built by Direct Labour, for B.C.—John Westmorland and Co., Hartlepool, £2,092.

Nuneaton, War.—Installation and provision

B.C.—John Westmorland and Co., Hartlepool, £2,092.

Nuneaton, War.—Installation and provision
of lift in Lydgate Court flats for B.C.—
A. R. Lane, Ltd., St. Patricks Road,
Coventry, £3,215 (recommended).
Southampton.—Renewal of electrical installation at Springhill R.C. School for B.C.—
G. Brough, £955 (recommended); H. C.
Taplin and Sons, Ltd., £1,034; A. Buckett
and Son, Ltd., £1,099; Sunderland Forge
and Engineering, Ltd., £1,285; Dicks (Electrical Installations), Ltd., £1,380,
Walthamstow, Essex.—Electrical installation
at 16-18 Prospect Hill for B.C.—Woodford
Electrical Co., 56 High Street, Woodford
Bridge, £1,623 (recommended).

FENCING

FENCING

Newbury, Berks.—Erection of chain link fencing, schemes 7e and 7g at Bath Road estate for B.C.—James Edwards and Sons (Inkpen), Ltd., Inkpen, Sawmills, Newbury, £805 (recommended).

Ormskirk, Lancs.—Erection of wrought-iron fencing at the Maghull Deyes Lane County Secondary School for Co. E.C.—Raymond Sleigh, Ltd., Pownall Street, Leigh, £1,249.

Stoke-on-Trent, Staffs.—Provision and erection of wrought-iron fencing along the boundary between the development on the Chorley Avenue, Fegg Hayes estate and the adjoining mineral railway line for City Council—Bayliss, Jones, Bayliss, Ltd., Wolverhampton, £2,322 (recommended).

E.2.3.2.2 (recommended).
Worcester. — Provision and replacement of fencing at Ronkswood Primary School for City Council—Durafencing (Birmingham).
Ltd., 34a Ulverley Green Road, Olton, Solihull, £462 (recommended).

GAS AND WATER SUPPLY

elfast. — Water purification and filtration plant, pipework and ancillary equipment at proposed Grove Baths, York Road, for City Council. McCandless and Barton, consulting engineers, 6 Murray Street, Belfast, 1—United Filters and Engineering, Ltd., Burston Road, Putney, London, S.W.15.

Council. McCandless and Barton, consulting engineers, 6 Murray Street, Belfast, 1—United Filters and Engineering, Ltd., Burston Road, Putney, London, S.W.15.

Doncaster, Yorks.—Erection of a pump house at Finningley borehole No. 3 for B.C.—Direct Labour, £6,500 (recommended).

Maldon, Essex.—Supply and laying of approximately 1,506yd, of 3in. asbestos-cement water main, together with valves, hydrants, etc., for R.D.C.—G. J. Bardwell and Sons, Cold Norton, Chelmsford, £2,062 (accepted): A. C. and R. S. Mills, £2,188; Biggs Wall and Co., Ltd., £2,752; W. Donnellan, £3,387. Work to commence this month.

Romsey and Stockbridge, Hants.—Water supply schemes for Palestine and Mottisfont, for R.D.C. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton—T. Carey and Son, Ltd., Station Buildings, East Finchley, London, N.2, £21,722 and £25,890, respectively. Work commencing shortly.

Southampton.—Supply of pumping plant for water supply to Gardeners Lane, Romsey, for B.C.—James Beresford and Son, Ltd., Birmingham, £984 (recommended).

South Cambridgeshire.—Construction, testing and maintenance of a pumping station, a 100,000-gallon reinforced concrete surface tank, and other works at Abington, consulting engineers, 59 Tufton Street, Westminster, London, S.W.I.—Winton Hayes, Ltd., Boddington Works, Drove Road, Biggleswade, Beds., £10,015. Work commencing Nov. 1.

Willion, Som.—Clatworthy water supply scheme, contract 10, for R.D.C., including the construction of a 350,000-gallon capacity service reservoir in reinforced concrete at Grove Williton. S. E. Balch, engineer and surveyor—George Pollard and Co., Ltd., Wood Street, Taunton, £22,657.

HEATING AND VENTILATING

Bradford, Yorks.— Installation of a calorifier system for supply of domestic ot water at Semon Home for City Council—F. L. Sanderson and Son, Ltd., 36 City Road. Bradford, 8, £774 (recommended).

Bradford, 8, £774 (recommended).

Kendal, Westmor. — Improvements to engineering services at Kendal Green Hospital for Manchester Regional Hospital Board—Saunders and Taylor, Ltd., 97 Chapel Street, Salford, 3, £16,105 (recommended, subject to Ministry approval).

Macclesfield, Ches.—Improvements to heating services (phase 1) at Parkside Hospital for Manchester Regional Hospital Board—Z. D. Berry and Sons, Ltd., 16-18 Regency Street, London, S.W.1, £19,668 (recommended, subject to Ministry approval).

Manchester.—Provision of three Economic

mended, subject to Ministry approval).

Manchester. — Provision of three Economic type boilers for boilerhouse and plant at Fairfield General Hospital for Regional Hospital Board—D. Adamson and Co., Lt. Dukinfield, Ches., £21,314 (recommended, subject to Ministry approval).

Mansfield, Notts.—Provision of ventilation in large swimming baths for B.C.—Williams and Williams, Ltd., 65 Wolstenholme Road, Sheffield, 7, £1,079 (recommended).

Sheffield. — Installation of heating and hot water system in second part of the Park Hill flats scheme for City Council—Brightside Heating and Engineering Co., Ltd., Ecclesfield, Sheffield, £11,321.

HOUSING SCHEMES

edale, Northumb. — (1) Site clearing and erection of seven bungalows and three houses: (2) road formation, Carthorpe redevelopment site, for R.D.C. Kenneth V. Shaw, architect. Oak House, Market Place, Bedale—(1) R. B. A. Moody (Northalletron), Ltd., £16,998; (2) R. Dodds and Sons, Melsonby, £1,089, Work commencing Oct 18.

Melsonby, £1,089. Work commencing Oct. 18.

Beverley, Yorks.—Following for B.C.: 52 houses and 10 garages on Swinemoor housing estate —T. R. Barnett, Ltd., Curson

Street, Hull, £75,705; 10 houses with garages on St. Giles Croft site—Thos. Holmes and Sons (Contractors), Ltd., Sculcoates, Hull, £19,168 (both recommended, subject to Ministry approval).

Bradford, Yorks.—Sixty-four dwellings and 40 garages at Bradford Road, Clayton— M. Harrison and Co., (Leds), Ltd., Post Hill Quarries, Farnley, Leeds, 12, £140,502 (recommended).

(recommended). Twenty-eight additional dwellings at Maud's Elm, stage II, for B.C.—G. Wimpey and Co., Ltd., Hammersmith Grove, London W.6 (recommended).

Cockermouth, Cumb. — Five houses at Bassen thwaite, for R.D.C.—Thomas Armstrong, Ltd., Cockermouth, £9,935.

Cockham, Berks. — Block of four flats adjoining Sawyers Crescent, Woodlands Park, White Waltham, for R.D.C. Alex Mandeville. engineer and surveyor — Veevers Bros., 7 Grubwood Lane, Cookham Dean, Berks., £6,356. Work about to commence.

ville. engineer and surveyor — Veevers Bros., 7 Grubwood Lane, Cookham Dean. Berks., £6,356. Work about to commence, Downham, Norfolk. — Following for R.D.C. Hughes and Bicknell, architects, Tunwells Court, Trumpington Street, Cambridge—Four bungalows at Market Lane, Crimplesham.—P. J. Boughen, Wimbotsham, £4,068 (accepted); Barker Bros., £4,603; O. Staines and Son, £4,673; H. W. Mobbs, £4,700; A. M. Covell, £4,719; M. J. Thompson (Fincham), Ltd., £4,828 F. Bennett, £5,576. Four houses and 12 bungalows at Sluice Road, Denver — Barker Bros., Downham Market, £19,080 (accepted); P. J. Boughen, £18,761; Buckingham and Sparrow, £19,131; A. M. Covell, £20,136; M. J. Thompson (Fincham), Ltd., £20,335.

Ten bungalows at Lodge Road Feltwell—O. Staines and Son, Fincham, £10,912 (accepted); Barker Bros., £11,259; M. J. Thompson (Fincham), Ltd., £12,159; M. J. Thompson (Fincham), Ltd., £12,159; H. W. Mobbs, £12,565.

Six bungalows at Wretton Road, Stoke Ferry—H. W. Mobbs, Shouldham, £6,647 (accepted); O. Staines and Son, £6,759; Barker Bros., £6,953; A. M. Covell, £6,985; M. J. Thompson (Fincham), Ltd., £7,361. Four bungalows at Queen's Close, Wereham.—P. J. Boughen, £3,996 (accepted); Barker Bros., £4,552; O. Staines and Son, £4,482; H. W. Mobbs, £4,620; A. M. Covell, £4,699; M. J. Thompson (Fincham), Ltd., £7,401.

Hartlepool, Dur.—Thirty houses at Hart Station for B.C. John Wilkin, borough engineer—Atter and Davison, Northgate, Hartlepool, £56,470.

Houghton-le-Spring, Dur.—Following for U.D.C.: 30 old people's bungalows and six houses, Burnside estate and 32 aged persons' bungalows at Durham Street, Fencehouses—Direct Labour, £41,051 (for houses) and £10,888 (for site works and street lighting) and £43,329 (including site works), respectively.

Ilford, Essex.—Seventy-two flats and 39 garages at The Glade, stage II, for B.C.—Jenners (Builders), Ltd., High Road, Woodford Bridge, £147,786 (recommended).

Keighley, Yorks. — Ninety-three three-bed-room houses on the Hainworth Road estate for B.C. E. G. Felgate, borough architect— F. W. Heaton (Builders), Ltd., Crossflatts, Bingley.

for B.C. E. G. Feigate, borosan T. F. W. Heaton (Builders), Ltd., Crossflatts, Bingley.

Kirkcaldy, Fifes.—Following for B.C.: (1) Fifteen two-storey cottages and flats at Templehall Farm site; (2) eight single-storey cottages at Spey Avenue. James Gentles and Son, chartered quantity surveyors, Osborne House, East Fergus Place, Kirkcaldy—John Best (Contractors), Ltd., 13 Medirum Road, Kirkcaldy, £25,890 and £11,998, respectively

Maidstone, Berks.—Sixty-six houses and 12 garages at Cox Green estate, contract 5L, for B.C.—Clayton Heath, Ltd., Boyne Works, Boyne Hill, £109,487.

Newcastle upon Tyne.—Filling old mine work-

for B.C.—Clayton Heath, Ltd., Boyne Works, Boyne Hill, £109,487.

Newcastle upon Tyne.—Filling old mine workings in the Westgate Road area with concrete and grout pumped through boreholes under pressure, to prepare the land for the erection of multi-storey flats for City Council—Wimpey and Co., Ltd., Orchard House, Fenwick Terrace, Newcastle upon Tyne, £26,547.

Newton Aycliffe, Dur.—One hundred and thirty-two houses and 47 lock-up garages for Aycliffe Development Corporation. G. A. Goldstraw, chief architect—Direct Labour.

Liverpool.—Following for City Council: 24 dwellings at Kirkby consisting of two- and three-bedroom maisonnettes and one-bedroom flats at Kirkby Row—Unit Construction Co., Speke Boulevard, Speke, Liverpool, 24, £34,956; 89 dwellings, consisting of houses, flats and maisonnettes on four different sites, together with 77 garages and four shops. Six of the houses and 18 of the flats, as well as 48 garages, will be on Menlove Avenue—R. J. Barton and Sons, Altcar Road, Formby, £221,763. Six one-bedroom flats at Sybil Road, Walton—W. L. Murphy and Co., Guys Cliff, Kirkstone Road, North Liverpool, 21, £8,915.

Southampton.—Following for B.C. 136 flats at Maybush Triangle, contract B.344—G. T.

Southampton. — Following for B.C. 13 at Maybush Triangle, contract B.344

Crouch, Ltd., Kingston - upon - Thames, £255,376; three blocks of five-storey flats (33 No-fines) at section 4, Thornhill estate contract B.352—G. Wimpey and Co., Ltd., London, W.6, £59,853 (recommended, subject to Ministry approval).

Stoke-on-Trent, Staffs. — Fifty-two dwellings (group I) at Longton Hall Road, Longton site, for City Council—Direct Labour, £75,590 (recommended, subject to Ministry approval)

Tipton, Staffs.—Ninety flats in three six-storey blocks, including ancillary buildings and external works at Groveland Road site, for B.C.—Wates, Ltd., 1258 London Road, London, S.W.16, £222,923 (recommended, subject to Ministry approval).

subject to ministry approval).

Tynemouth, Northumb.—Two blocks of 44 dwellings, four storeys high, under stage 3 of the East End redevelopment scheme, North Shields, for B.C. D. M. O'herlihy, borough engineer—Wimpey and Co., Ltd., Orchard House, Fenwick Terrace, Newcastle upon Tyne, £82,044.

Wick Caithness.—Willowback housing 16th.

castle upon Tyne, £82,044.

Wick, Caithness, — Willowbank housing, 16th development (92 houses) for B.C. Jenkins and Marr, architects, 3 Bon-Accord Crescent, Aberdeen — Kenneth Macrae and Co., Ltd., The Shore, Wick, £171,298 (accepted); D. M. Geddes and Sons, £189,255; Alexander Sutherland, Ltd., £195,256; A. A. Stewart and Sons, £198,274.

MATERIALS AND SUPPLIES

Huddersfield, Yorks.—Supply of 80,000 cu. yd. of dry slag fifter media for B.C.—Stanton Ironworks Co., Ltd., Ilkeston, Derbys.

PLANT AND MECHANICAL TRANSPORT

Newcastle upon Tyne.—Supply of two vehicles suitable for the Council's school meals service for City Council—Minories Garage, Ltd., Newcastle upon Tyne, £1,463.

Orrell, Lancs.—Supply of a dustless loader for U.D.C.—John Gibson and Co., Ltd., Edinburgh, £3,482.

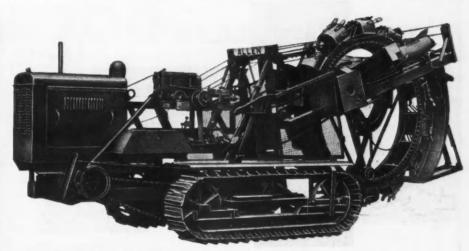
Southampton.—Supply of a 10/12-ton diesel roller for B.C.—Aveling-Barford, Ltd., Grantham, Lincs., £3,182 (recommended).

Tipton, Staffs.—Supply of a Chaseside loading shovel for B.C.—R. Tildesley, Ltd., Willenhall, £1,892 (recommended).

Walthamstow, Essex.—Supply of two Karrier Gamecock tipping lorries and one Simon hydraulic lifting platform mounted on a Dennis chassis for B.C.—Reliance Motors

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JOHN ALLEN & SONS (OXFORD) LTD., Cowley, Oxford

(Chingford), Ltd., Hall Lane, London, E.4. £2,610, and Dennis Bros., Ltd., Guildford, Surrey, £4,190, respectively (recommendd).

PLAYING FIELDS, PARKS, ETC.

PLAYING FIELDS, PARKS, ETC.

Bradford, Yorks.—Construction of a bowking green and three hard tennis courts at Brackenhill Park for City Council—En-Tout-Cas Co., Ltd., Syston, Leicester, £1,531 and £1,398, respectively (recommended).

Lancashire.—Development of playing fields at Our Lady's R.C. Secondary School to be built at Acrelands, Skerton, for Co. E.C.—C. A. Wijding and Co., Ltd., £2,208.

Nuneaton, War.—Preparation of playing field for B.C.—J. W. Chorley, Ltd., Witherley, Atherstone, £1,100 (recommended).

Worcester.—Spreading soil and levelling at Diglis recreation ground for City Council—W. F. Eden, Worcester, £625 (recommended).

mended).

RAILWAY ENGINEERING

British Railways.-Following contracts placed: North-Eastern Region:

British Railways.—Following contracts placed:
North-Eastern Region:
Partitioning of the diesel shop at North
Road Locomotive Works, Darlington—
Handy Angle, Ltd., Grand Buildings.
Trafalgar Square, London, W.C.2.
Removal of the platforms and station
buildings at Blackhall Rocks — A. Blair,
Ltd., 28 Southend Avenue, Darlington.
Installation of foundations for hydraulic
buffer stops on platforms 4 and 5, and for
the provision of drainage and water supplies at Bradford Exchange Station — The
Brighouse Estate Co. (Builders), Ltd.,
Fagley Lane, Bradfod, 2.
Site works required in the part reconstruction of bridge 7 at Armley Moor on
Leeds-Bradford line—Ruddock and Meighan,
Ltd. Barugh Green, Barnsley.
Provision of a heating installation in the
parcels office at Newcastle Central Station
and in the offices at Irving House, Westgate
Road, Newcastle—The Brightside Heating
and Engineering Co., Ltd., Lambton House,
Lambton Road, Newcastle upon Tyne, 2.
Marshalling yard at Newport — A. Robinson (Contractors), Ltd., 423 Linthorpe
Road, Middlesbrough.
iccortish Region:

son (Contractors), I Road, Middlesbrough. Scottish Region:

Diesel fuelling and maintenance facilities.
Eastfield motive power depot, Glasgow—
Jas. Campbell and Son, Inverness.
Road repairs, Corstorphine goods yard—
A. and J. Faill, Ltd., Glasgow.

Preston Sheffield

Two rail planing machines, Kilmarnock permanent way workshops—Butler Machine Tool Co., Ltd., Halifax.
Reconstruction of underbridges I and I0, Saughton Road North, Edinburgh—James Miller and Partners, Ltd., Edinburgh.
Two diesel-driven two-ton fork lift trucks for goods stations in Scotland—Conveyancer Fork Trucks, Ltd., Warrington. Infilling of arch voids, viaduct 104 Kilmarnock—Kinnear, Moodie and Co., Ltd., Glasgow. Glasgow.

Glasgow.

Heavy duty wheel lathe, Townhill wagon repair depot, Dunfermline — Scottish Machine Tool Corporation, Ltd., Johnstone, Maintenance work, underbridge 214, Golspie — The Cementation Co., Ltd., Glasgow.

Prestressed concrete beams and precast concrete units for 11 underbridges—Costain Concrete Co., Ltd., Newmains.

Grading of hump areas Millerhill new marshalling yard, Edinburgh—James Miller and Partners, Ltd., Edinburgh.

Doubtern Region:

Southern Region:

outhern Region:
Wimbledon Station: repairs to roofs—
Macartney and Sons, London, S.W.9.
New Cross Gate-Deptford Wharf: aerial
survey—Fairey Air Surveys, Ltd., near
Maidenhead, Berks.
Kingston Station: repairs to roofs—Durable Asphalte Co., Ltd., London, N.I.
Waterloo Station: repairs to roofs—Durable Asphalte Co., London, N.I.
Greenwich Royal Hill: removal of bridge
and reinstatement of highway—Harry Neal.
Ltd., London, W.I.
Hurst Green New Station: construction roew station buildings, platform roofing and
ancillary works—Truett and Steel, Ltd.,
Vestern Region:

Western Region:

Vestern Region:
Setting out, supply and installation of signalling control and train describer panels at signal box, Port Talbot—Henry Williams, Ltd., Tolpits Lane, Watford, Herts.
Setting out, supply and installation of signalling control panels at East Usk, Newport West, Maindee Main, Maindee North, Gaer Junction and Ebbw Junction signal boxes, Newport—Henry Williams, Ltd., Tolpits Lane, Watford, Herts.
Setting out, supply and installation of signalling control and train describer panels at Twyford signal box—Henry Williams, Ltd., Tolpits Lane, Watford, Herts.
Setting out, supply and installation of signalling control and train describer panels

at signal box Newport East — Henry Williams, Ltd., Tolpits Lanc, Watford, Herts. Supply, installation, testing, connecting and setting to work of electric lighting facilities at Paignton Station—Burdette and Co., Ltd., Clapham Manor Street, London, S.W.4.

and setting to work of electric lighting facilities at Paignton Station—Burdette and Co., Ltd., Clapham Manor Street, London, S.W.4.

Provision of additional accommodation in connection with the fuelling facilities for diesel railcars at Tyseley—Jenks Builders, Ltd., Stafford Street, Wolverhampton.

Renewal of the roof covering and vertical glazing to the lifting shop at Running and Maintenance Depot, Tyseley—J. Rata and Co., Ltd., Chapter Road, London, N.W.2.

Supply and installation of three gas-fired furnaces at Q shop, locomotive works, Swindon—Lucas Furnaces, Ltd., Wharton Street, Nechells, Birmingham, 7.

Supply, installation, testing, connecting and setting to work of electric lighting facilities, etc., at Oldbury and Langley Green Station—The Midland Electric Installation Co., Ltd., Cyprus Works, Upper Villers Street, Wolverhampton.

Supply, erection and commissioning of a standby supply generating set and transformer in the signal relay room at Reading—Pelapone, Ltd., Derby.

Supply, erection and commissioning of a standby supply generating set and transformers in the signal relay room at Maidenhead—Pelapone, Ltd., Derby.

Supply, erection and commissioning of a standby supply generating set and transformers in the signal relay room at West Drayton—Pelapone, Ltd., Derby.

Supply, installation, testing, connecting and setting to work of electric lighting facilities, etc., at Newton Abbot Station and area—James Scott and Co. (Electrical Engineers), Ltd., Grosvenor Place, S.W.I.

Supply, erection and commissioning of a standby supply generating set and transformers in the signal relay room at West Drayton—Pelapone, Ltd., Derby.

Supply, installation, testing, connecting and setting to work of electric lighting facilities, etc., at Newton Abbot Station and area—James Scott and Co. (Electrical Engineers), Ltd., Grosvenor Place, S.W.I.

Supply agenerating set and transformers in the signal box, Port Talbot—National Gas and Oil Engine Co., Ltd., Ashon-unnder-Lyne, Lancs.

Renovation of the booking hall and in



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ROADS, BRIDGES AND SITE WORKS

Banfishire.—Construction of a by-pass, approximately 700yd. long, through Duff House grounds for C.C.—John McAdam and Sons, Ltd., Muggie Moss Road, Woodside, Aberdeen, £44,972 (accepted); William Briggs and Sons, Ltd., £46,875; Dreit Construction Co, Ltd. £49,611; William Tawse, Ltd., £52,543; Donald C. Stewart, £55,989; Sportsworks, Ltd., £57,861; James Leith, Junr., Ltd., £67,543; Lewis Middleton, Ltd., £114,788.

ton, Ltd., £114,788.

Bradford.—Following works for City Council:
Kerbing and resurfacing the roadway at
Beechwood—Ibmac, Ltd., Shipley, £1,593;
site preparations, construction of carriageways and footpaths and laying of severs and
drains at Bradford Road housing estate—
Direct Labour, estimated cost £8,846; remaking of access road at Hanson School
canteen—Pavior Construction Co., Ltd.,
Shipley, £908 (recommended).

Snipley, 1908 (recommended).

Caterham and Warlingham, Surrey.—Makingup of Crewes Avenue, Warlingham, for U.D.C. L. V. Gordon, engineer—Sparkes (Construction), Ltd., £3,687 (recommended); Farnborough Engineering and Construction Co., £4,022; W.H. Gaze and Son, £4,001; Mears Bros., £3,760; H. V. Smith and Co., Ltd., £4,695; John Sugrue and Sons, £4,613; Surface Maintenance Services Ltd., £4,104; Waywardens, Ltd., £4,726.

Chettsey, Surrey—Makingeup, of eight private.

Waywardens, Ed., 24,25.

Chertsey, Surrey.—Making-up of eight private streets on the Bois Hall estate, Addlestone, for U.D.C. N. C. Goldsmith, engineer and surveyor—W. H. Gaze and Sons, Ltd., 139 Roehampton Vale, London, S.W.15, £8.320.

Chester.-Preliminary road and sewer works at Higfield Road housing site for City Council Percy Bilton, Ltd., Newcastle Road, Stone, Staffs., £6,824 (recommended).

Chipping Norton, Oxon.—Laying approximately 2,000yd. of 3in. and 4in. pressure asbestos water mains at Salford, near Chipping Norton, for R.D.C.—Woodlands (Worcestershire), Ltd., Evesham, £3,066 (provisionally accepted).

(provisionally accepted).

Cockermouth, Cumb.—Construction of roads and sewers to serve 24 houses at Dearham for R.D.C.—Eden Construction Co., English Damside, Carlisle, £4.819.

Crawley, Sussex.—First stage of site works for Furnace Green, comprising extensions of Furnace Drive and Ashdown Drive, Til-

gate, for Development Corporation—Highways Construction, Ltd., Iddesleigh House, Caxton Street, London, S.W.1, £63,384.

Caxton Street, London, S.W.I., 263,384.

Derbyshire.—Levelling, paving, kerbing, draining and surfacing of Netherfield Road, Chapel-en-le-Frith, for C.C.—T. J. Murphy, Ltd., 113 Radeliffe New Road, Whitecliffe, near Manchester, £4,408.

Exeter.—Following for City Council: Construction of a service road off Palace Gate and resurfacing of Cathedral Yard and paving of the Piazza—Kings Asphalt, Ltd., 10 Bedford Street, Exeter, £1,847 and £1,953, respectively; surfacing of Prince of Wales Road and Middlemoor Roundabout and Magdalen Road—Western Quarry Sales, Ltd., St. Stephens House, High Street, Exeter, £942 and £2,567, respectively; completion of paving at South Street (stage II)—King's Asphalt, Ltd., £5,319 (recommended).

Hampshire.—Improvements to eastbound

(recommended).

Hampshire. — Improvements to eastbound carriageway of trunk road, A.30, east of Hatch for C.C.—Surface Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, £13,993.

Harwich, Essex.—Making-up of Wick Lane for B.C.—Roadworks (1952), Ltd., 57-61 Com-mercial Road, Ipswich, £6,316 (recom-mended).

Inverness-shire. — Improvemnt of the Tarbert-Rodel road (A.859) for C.C. — William Tawse, Ltd.. Carse, Inverness. Estimated cost £150,000.

cost £150,000.

Isle of Wight.—Proposed highway improvement at Blackwater Junction, Blackwater, near Newport, for C.C., including construction in lean-mix concrete and bituminous macadam of approximately 700 lin. yd. of carriageway not less than 22ft. wide, together with surface water drainage, fencing and other ancillary works—Cheek Bros., 1 Churchlitten, Newport, I. of W., £21,762.

£21,762.

Kincardineshire. — Improvement and diversion of the Brechin-Laurencekirk-Stonehaven road, A.94, from Fiddes to Clochnahill, for C.C.—William Briggs and Sons, Ltd., East Camperdown Street, Dundee, £37,547.

Leicester.—Widening of Checketts Road for City Council—Stimpson and Rollston, Ltd., West Avenue, Wigston, Leicester, £19,281 (recommended, subject to M.T. approval).

Llanelly, Carms.—Advanced preparation work of the housing site near Noddfa Chapel,

Trimsaran, for R.D.C.—J. H. Williams, I The Cliffe, Burry Port, Llanelly, £5,057 (accepted); Cambrian Construction Co., Ltd., £9,307; Kirkhouse Asphalt Co., £6,872; Woodland Development Agency, Ltd., £7,341; Isaac Jones (Llanelly), Ltd., £5,398; T. Gallagher and Son, Ltd., £6,314; Arnold Engineering Construction Co., Ltd., £6,487. Work to commence this month. Maidenhead, Berks.—Following at Cox Green estate for B.C.: Surfacing of carriageways, section I — Constable Hart and Co., Ltd., Lion House, Red Lion Street, Richmond, Surrey, £5,445; footway works, stage I, section II—Charles Prior and Son, 153 Ashford Road, Bucks., £3,808 (recommended, subject to Ministry approval).

Subject to Ministry approval).

Mansfield, Notts.—Construction of roads and sewers, etc., at Gas Hill and Crow Hill, Pleasley Hill, for B.C.—Direct Labour, £4,050 (recommended).

Newbury, Berks.—Construction of footpaths and ancillary works on part III of Bath Road estate for B.C.—Sportworks, Ltd., Reading £4,618.

Road estate for B.C.—Sportworks, Ltd., Reading, £4,618.

Newcastle upon Tyne.—Reconstruction and widening of Fawdon Lane from the city boundary to Fawdon Park Road for City Council. D. T. Bradshaw, city engineer—Direct Labour, £22,870.

Norwich.—Construction of a footpath and surface water sewer in Plumstead Road East and widening Riverside Road for City Council—Direct Labour (recommended). Estimated cost £9,900 and £9,910, respectively.

respectively.

Nuneaton, War.—Draining and paving of garage sites for B.C.—Judkins (Coated Macadam), Ltd., Tuttle Hill, Nuneaton, £7,267 (recommended).

Rawtenstall, Lancs.—Construction of a new access road to Rossendale General Hospital for B.C.—James Brearley and Sons, Ltd., Yorkshire Street Mill, Bacup, £8,755 (recommended).

Sandhach, Ches.—Making up. Swaptooth

(recommended).

Sandbach, Ches. — Making-up Sweettooth Lane (part) for U.D.C.—R. Beech (Contractors), Ltd., £1.708 (recommended).

Sandown-Shanklin, I. of W. — Reconstruction and making-up of part of Brook Road, Shanklin, including kerbing, excavation, ballasting and surfacing of the carriageway and footpaths and other incidental works, for U.D.C. T. Josey, surveyor—W. G.

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Elliott, Merryle, Godshill, I. of W., £967 (accepted); Cheek Bros., £1,816.

Southampton.—Making-up of (a) Montague Avenue (part), (b) Harlyn Road (part), Paignton Road (part) and Trearnan Close, and (c) Oak Close, for B.C.—Wessex Road Construction Co., £td., Heathfield Farm, Catisfield, Fareham, (a) £2,709, (b) £3,541 and (c) £1,299 (recommended, subject to Ministry approval).

and (c) £1,279 (recommended, subject to Ministry approval).

South Shields, Dur.—Construction of traffic roundabout at the junction of Prince Edward Road and Harton Lane for B.C. John Reid, borough enginer—Direct Labour, 69 500

John Reid, borough enginer—Direct Labour, Staffordshire. — Making-up of Brookfield Avenue, Endon (length 213yd.) for C.C. The work includes excavation, providing two layers of 2in. broken stone to 6in. depth laid on 3in. ashes, and surfacing of 3in. bituminous macadam, precast concrete kerbs, and channels, footpaths of bituminous macadam and cold asphalt, and the provision of stoneware surface water drains with brick manholes — F. J. Williams and Sons (Bucknall), Ltd. Werrington Road. Bucknall, Stoke-on-Trent.

Stoke-on-Trent, Staffs. — Following for City Council: Completion of street works on (a) Penkhull New Road, Pennkhull estate, (b) Berry Hill estate (contract 2) and (c) Warren Road, Chell Heath and (d) improvement and widening of Hamil Road along the Burslem Park frontage—Roy Beech (Contractors), Ltd., 9 Brook Street, Stoke-on-Trent, (a) £4,338, (b) £6,744, (c) £1,876 and (d) £4,656 (recommended).

Repairs to Glebe Street Canal Bridge. Stoke, and parapet walls of Sutherland Road Bridge, Longton — Leonard Fairclough, Ltd., Newcastle-under-Lyme (recommended). Estimated cost £4,500 and £1,600, respectively.

Tipton, Staffs. — Site levelling and construct-

clough, Ltd., Newcastle-under-Lyme (recommended). Estimated cost £4,500 and £1,600, respectively.

Tipton, Staffs. — Site levelling and construuction of estate roads and sewers on southwest section of Groveland Road site for B.C. — Wrekin Construction Co., Ltd., £3,238 (recommended, subject to Ministry approval).

Tynemouth, Northumb. — Extension to the Coast Road between Billy Mill and the Broadway for B.C. D. M. O'herlihy borough engineer—G. Wimpey and Co., Ltd., Orchard House, Fenwick Terrace, Newcastle upon Tyne, £176,355.

Walthamstow, Essex. — Construction of roads and sewers at Outwood Common (northern section) for B.C.—Hadsphaltic Construction Co., Ltd., Ibex House, Minories, London, E.C.3, £5,521 (recommended).

West Riding.—Improvement of the London-Thurso trunk road by the construction of the Aberford By-pass in the Tadcaster rural district for C.C.—Dowsett Engineering Con-struction, Ltd., Dowsett House, Durham Road, Newcastle upon Tyne, 9.

Worcester.—Resurfacing the playgrounds at the Royal Grammar, Gorse Hill Infants', Samuel Southall Secondary and St. Clement's Primary Schools for City Council—N. W. Dunn and Co., Ltd., Coro-nation House, Church Street, Bromsgrove, £1,221 (recommended).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bradfield, Berks. — Improvements to Beenham drainage scheme for R.D.C. — Blakes (Beenham), Ltd., Bath Road, Padworth. £17,100 (subject to Ministry approval).
Bradford. — Extensions to sludge lagoon at North Bierley sewage disposal works for City Council—Wright Bros. (Clayton), Ltd., Victoria Works, Clayton, Bradford, £1,139 (recommended).

trecommended).

Exeter. — Piping of a portion of stream at Sweetbrier Lane for City Council—W. I. Clemens and Co. (Contractors). Budleigh Salterton, £19,277 (recommended).

Fareham, Hants.—Construction of town main drainage relief sewers for U.D.C.—Surface Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, £157,069.

Hatfield, Herts.—Construction of approximately 3,600 lin. yd. of 6in. diameter glazed stoneware flexible jointed sewers, 41 concrete manholes and 850 lin. yd. of 4in.

glazed stoneware flexible jointed sewers, 41 concrete manholes and 850 lin. yd. of 4in. diameter drain connections to 64 properties at Bell Bar for R.D.C.—A. V. Wootton and Co., 76 Trinity Road, Wood Green, London, N.22, £12.108.

Leicester. — Construction of storm water sewers at Hinckley Road, Friday Street and Aylestone Road for City Council—Direct Labour (recommended). Estimated cost £35,000, £6,665 and £2,720, respectively.

Mildenhall, Suffolk.—Mildenhall sewerage scheme for R.D.C. J. H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6—Contract 1—construction of approximately eight miles of 6im., 9in. and 12in. diameter concrete pipe sewers, manholes, three pumping stations and sewage disposal works at Mildenhall—H. O. Andrews, Ltd., Leeds, 8, £143,575 (accepted); Sam Booth, Ltd., £158,210; F. W. Shanks, Ltd.,

£158,573; T. C. Stewart, Ltd., £161,510; Derek Crouch, Ltd., £189,817; Biggs, Wall and Co., Ltd., £195,049; K. B. Benfield and Co., Ltd., £195,049; K. B. Benfield and Co., Ltd., £28,987.

Contract 2—supply and erection at Mildenhall of two 450 gallons per minute crude screened sewage pumps; two 600 gallons per minute crude screened sewage pumps; two 100 gallons per minute sludge and supernatant water pumps, all complete with electric motors, starters and accessories—Adams-Hydraulics, Ltd., York, £8,854 (accepted); Gwynnes Pumps, Ltd., £7,786; Tuke and Bell, Ltd., £8,324; Hughes and Lancaster, Ltd., £8,893; Berry Hill Engineers, Ltd., £10,572; Drysdale and Co., Ltd., £12,286.

Newbury, Berks.—Construction of following, for B.C.: Lower Way Lane pumping station and rising main—Lee and Son, Burchetts Green, Maidenhead, £12,882; sewage Effluent pumping station and rising main—Mexfield Building Co., Ltd., £11,174 (recommended).

Mexfield Building Co., Ltd., £11,174 (recommended).

Newcastle upon Tyne. — Culverting of stream at Craghall Dene involving the laying of 160yd, of 48in. culvert for City Council. D. T. Bradshaw, city engineer — Direct Labour, £4,575.

Norwich. — Connection of St. Stephen's Street and Mile Cross Road sewers to the north-western intercepting sewer for City Council—Direct Labour (recommended). Estimated cost £2,300.

Wantage, Berks. — Reconstruction of sewers in Newbury Street, Wallingford Street, Little Lane and the Market Place for U.D.C.—Hinkins and Frewin, Ltd., Canal Street, Oxford, £37,446.

STREET LIGHTING

Cheadle and Gatley, Ches.—Supply and erection of 39 group A prestressed spun concrete lighting columns, together with 140-w sodium lamps and lanterns in Manchester Road, for U.D.C. D. S. Graham, engineer and surveyor—Cohen Bros. (Electrica Ltd., Bury Old Road, Manchester, 8. Work to commence December.

work to commence December.

Longbenton, Northumb.—Further stage of the Council's programme for converting street lighting from gas to electricity. Work includes the supply and erection of 133 sodium vapour lighting units on main roads and 21 100-W filament lighting units on other roads, for U.D.C.—Engineering and Lighting Equipment Co., Ltd., Sphere Works, St. Albans, Herts.

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MELTON ROAD, THURMASTON SYSTON 3357-9 TEL.

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Maidenhead, Berks.—Street lighting (stage II) at Shoppenhangers Road for B.C.—Erecon, Ltd., Amwell, Ware, Herts., £2.270 (recommended, subject to M.T. approval).
Oadby, Leics. — Supply and erection of 31 group B lighting units on Leicester Road and London Road for U.D.C. The columns are to be aluminium with 60-W. sodium lanterns and gear. E. H. Sandiford, engineer and surveyor—Midland Lighting and Building, Ltd., 167 London Road, Leicester, £1.195 (accepted); A.E.I. Lamp and Lighting Co., Ltd., £1,255; Phosco, Ltd., £1,269; A. C. Ford, Ltd., £1,319; Revo Electric, Ltd., £1,423. Ford, £1,423.

Watford, Herts.—Supply, erection and wiring complete of 93 concrete columns on the north orbital road A.405 for B.C.—Midland Lighting and Building Ltd., 167 London Road, Leicester, £3,613.

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £4,000 in value, placed by Navy Works Department:

Department:

Pembrokeshire: Painting — Ian Williams and Co., Ltd., Cardiff.

Kent: Extension to building—Wraight (Sittingbourne), Ltd., Sittingbourne; sheet piling—J. W. Ellingham, Ltd., Maidstone; reconstruction of roads, paths and railtrack—Bensted Contractors, Ltd., Maidstone.

Co. Durham: Renewal of timber decking—Eagre Construction Co., Ltd., Scunthorpe. Essex: Cable ducts. pit foundations, huts., ir. Ministry.—Contracts to the value of

etc.—J. Murphy and Son, Ltd., London, N.4.

Air Ministry.—Contracts to the value of £4,000 or over for the week ended Sept. 23:

Building work: Coningsby, Lincs.—J. T. Barber and Son, 40 Hessle Avenue, Boston, Lincs.; Alconbury, Hunts.—C. Miskin and Sons, Ltd., Romeland, St. Albans, Herts.; Honington, Suffolk.—A. Monk and Co., Ltd., P.O. Box 4, Stamford, Lincs.; Northwood, Middx.—W. H. Streeter, Ltd., 10 Tudor Road, Hampton, Middx.

Surfacing existing paved areas: Thorney Island, Hants.—Constable Hart and Co., Ltd., Lower Drayton Lane, Cosham, Portsmouth, Hants.

Surfacing existing taxiways: Ballykelly, Northern Ireland.—Constable Hart and Co., Ltd., Lion House, Richmond, Surrey.

Artificers' work: Bawtry, Yorks., etc.—G. G. Middleton and Sons, Ltd., 32 Gateford Road, Worksop, Notts; Old Sarum, Wilts., etc.—Willcocks and Stephens, Ltd., Lower Polsham Road. Paignton, Devon; Bishops Court, County Down, Northern Ire-

land, etc.—F. Parkinson, Ltd., Mowbray Drive, Blackpool, Lanes; Gaydon, Warwicks., and Ternhill (Salop), etc.—Lewis and Watters, Ltd., Lime Avenue, Lilington, Leamington Spa, Warwicks.; Hendon (London), Northwood (Middx.), etc.—Haymills (Contractors), Ltd., Empire House, Hanger Green, Western Avenue, London, W.5.
Provision of new buildings, concrete foundations, etc.: Horham, Suffolk—Haymills (Contractors), Ltd., Empire House, Hanger Green, Western Avenue, London, W.5.
Provision of concrete foundations, Provision of concrete foundation

Provision of concrete foundations for eel towers: North Luffenham, Rutland, c.—A. J. G. Potter and Sons, Ltd., igh Street, Stanwick, Wellingborough.

High Street, Stanwick, Weningbology, Northants. Electrical Installations (internal): Scamp-ton, Lincs.—Williams Bros. (Electrical), Ltd., 32a Temple Street, Wolverhampton.

Ltd., 32a Temple Street, Wolverhampton.

Ministry of Finance, Northern Ireland. — Contracts exceeding £250 in value placed during the period Sept. 5 to Sept. 16:

Construction and completion: Head Post Office, High Street, Omagh.—J. A. Gamble, Dock Street, Strabane.

Supply, etc., specialist concrete work, Pig Progeny Testing Station: Greenmount Agricultural College, Muckamore.—Dow-Mac (Products), Ltd., Warrenpoint, Newry.

Low pressure hot water heating, etc.: Ministry of Labour Local Office, Bishop Street, Londonderry.—Johnston Bros., Main Street, Hillsborough.

Supply, etc., paving slabs: Ministry of

Street, Hillsborough.
Supply, etc., paving slabs: Ministry of Commerce Factories, Carnmoney — J. McQuillan, Ltd., Glenside Quarries, Hannahstown, Dunmurry.
Supply, etc., wire mesh screens: Petty Sessions Court and County Courthouse, Belfast, I.
Supply, etc., wood block Googles, T. Supply, etc., wood block

Belfast, I.
Supply, etc., wood block flooring: Telephone Exchange, Dawson Street, Armagh—Vigers Bros., Ltd., Broadway Chambers, Ludgate Broadway, London, E.C.4.
Electrical installation, hostel: Loughry Agricultural College, Cookstown—T. Clarke, 31 Franklin Street, Belfast, 2.
Low pressure hot water heating, etc.: Post Office, Ballymoney—R. Finlay, Whitehouse, Belfast.

Ministry of Works.—Contracts placed for week ended Sept. 17:

Cheshire: Roman Amphitheatre, Chester erection of concrete and brick boundary alls—Thomas Warrington and Sons, Ltd., 2 Station Road, Ellesmere Port, Cheshire.

Essex: Buckhurst Telephone Exchange extension—erection—Charles S. Foster and

Sons, Ltd., 9-17 High Beech Road, Loughton, Essex.

Lanarkshire: Post Office Engineering Depot, Shields Road, Motherwell—erection—A. A. Stuart and Sons, Ltd., 2275 London Road, Carmyle, Glasgow, E.2.

London: Belgravia B.P.O., 4-5 Chester Mews, S.W.1—completion—E. J. Lacy and Co., Ltd., Steele Road, N.W.10; Whitehall Offices, S.W.1—erection of passenger lift—Keighley Lifts, Ltd., Yorkshire.

Somerset: Head Post Office, Shepton Mallet—alterations—Stone and Co. (Bristol), Ltd., Redland Road, Bristol, 6.

Mallet—alterations—Stone and Co. (Bristol), Ltd., Redland Road, Bristol, 6.

Post Office. — Contracts for duct laying, etc., works to the value of £4,000 and over placed during the two weeks ended Sept. 24:
Alec Astbury (Builders and Contractors), Ltd., Alyn Drive, Penyffordd, Chester; Hugh Brown (Engineers), Ltd., Chart Road, Ashford, Kent; C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; Christie and Co. (Contractors), Ltd., Raemoir Road, Banchory, Kincardines; George H. Graham (Contractors), Ltd., District Bank Chambers, Market Street, Huddersfield, Yorks; E. W. Moulson and Sons, Ltd., Forresters Yard, High Street, Wibsey, Bradford, Yorks; I. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; Robert Paterson and Sons, Ltd., Milton Street, Airdrie, Lanarks.; Stanley Raymond and Co., Ltd., Sussex Road, Southall, Midx: Douglas Shields, Ltd., 1 Carlin Gate, Blackpool, N.S. Lancs; J. C. Shields, Ltd., Preston Road, Lytham, Lytham St. Annes, Lancs; D. J. Sullivan (Bristol), Ltd., 16 Burlington Road, Redland, Bristol, 6; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8.

War Department.—Contracts placed for the week ended Sept. 15:

week ended Sept. 15:
Berkshire (Reading): electrical—Cawdells of Luton, Ltd., Luton.
Devon (Honiton): miscellaneous—Humphreys, Ltd., Plympton.
Humpshire (Crookham): insulation—Thermac Insulations, Ltd., London, S.W.I.
Middlesex (Hounslow): miscellaneous—H.
Goodsell and Son, Ltd., Maidstone.
Somerset (Taunton): redecoration—T. H.
Kenyon and Sons, Ltd., London, W.9
Warwickshire (Sutton Coldfield): building—Wilson Lovatt and Sons, Ltd., Wolverhampton.

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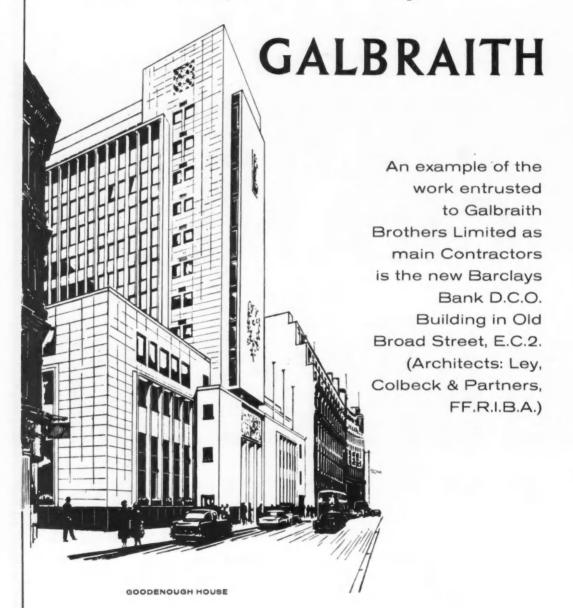
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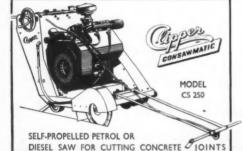












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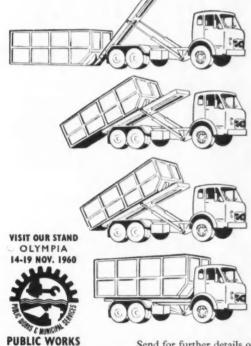
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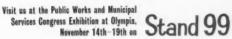
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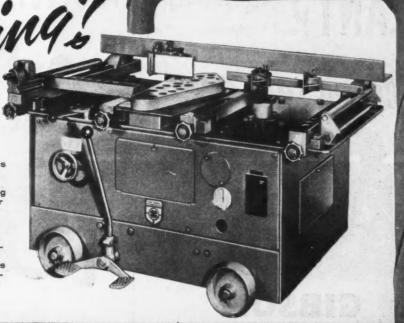
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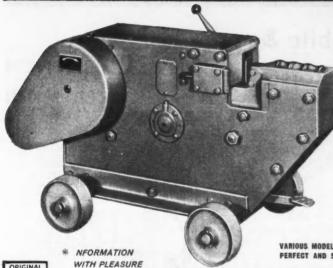


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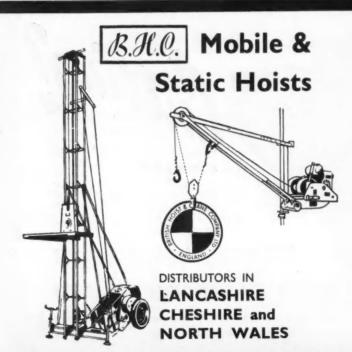
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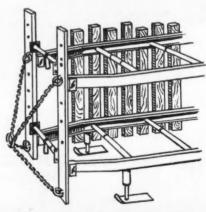
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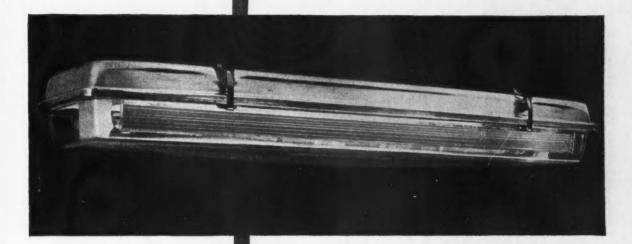
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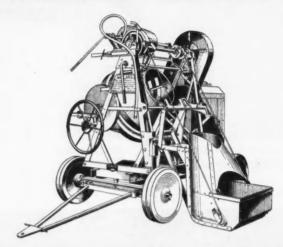
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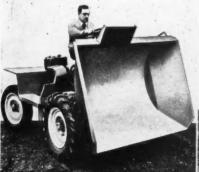
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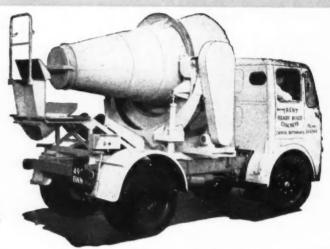
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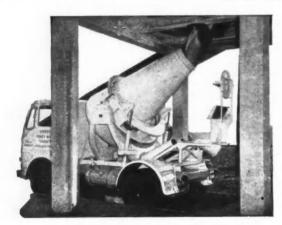
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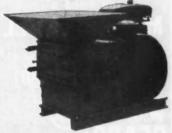
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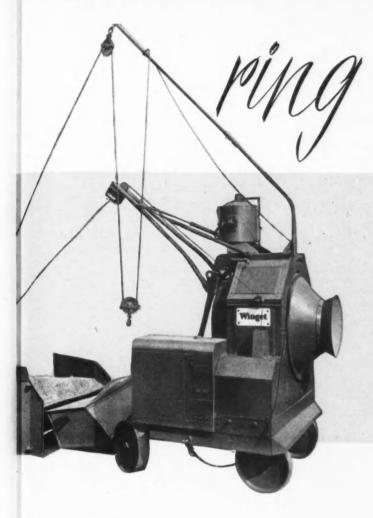
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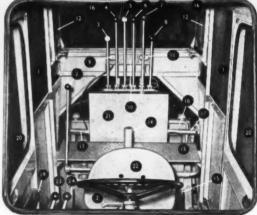
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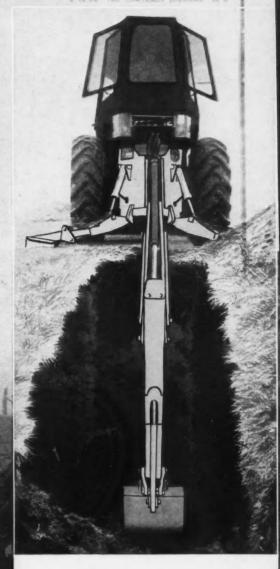
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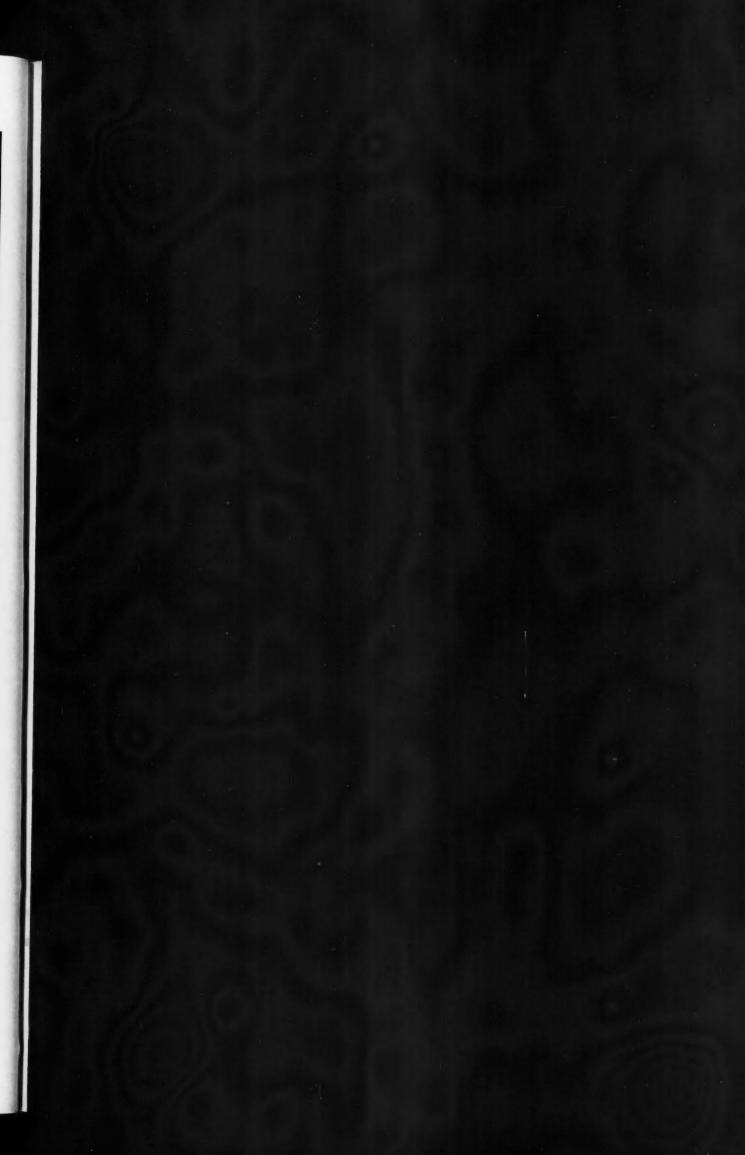
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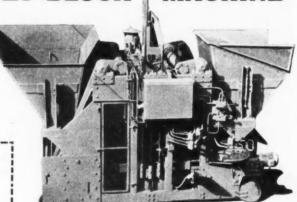
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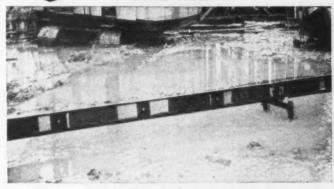
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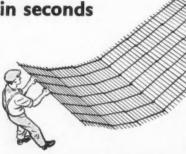
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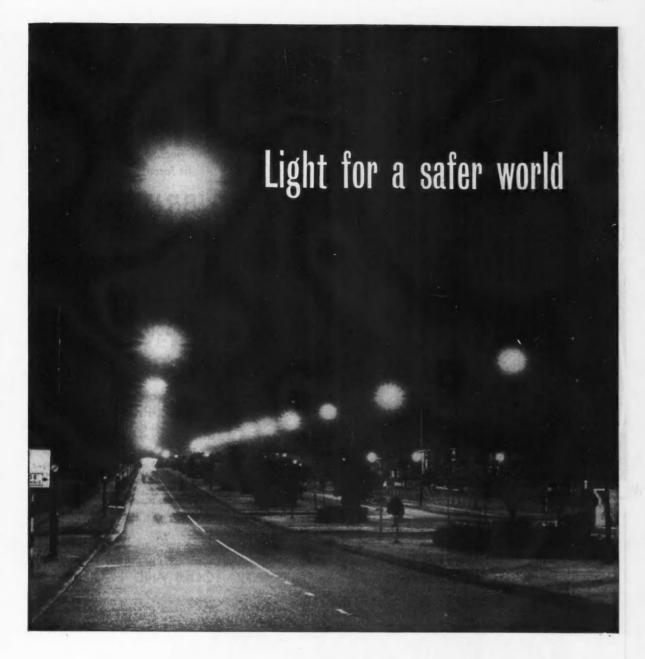


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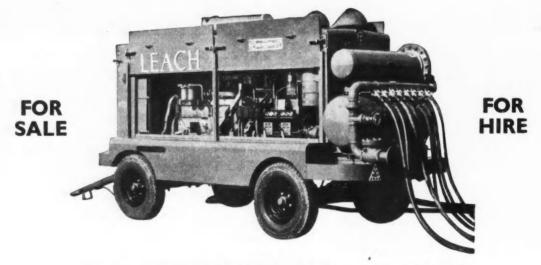
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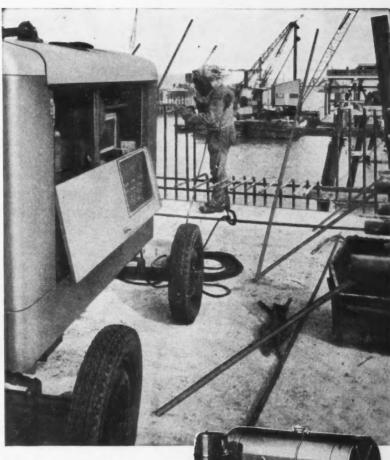


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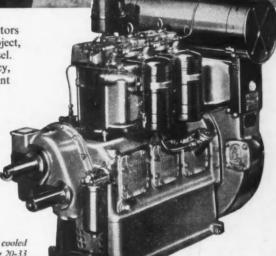
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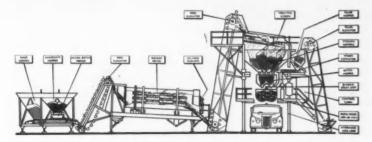
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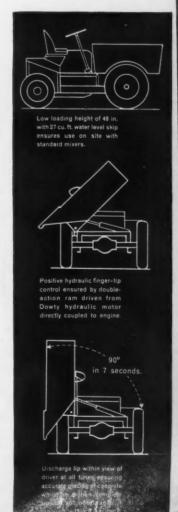
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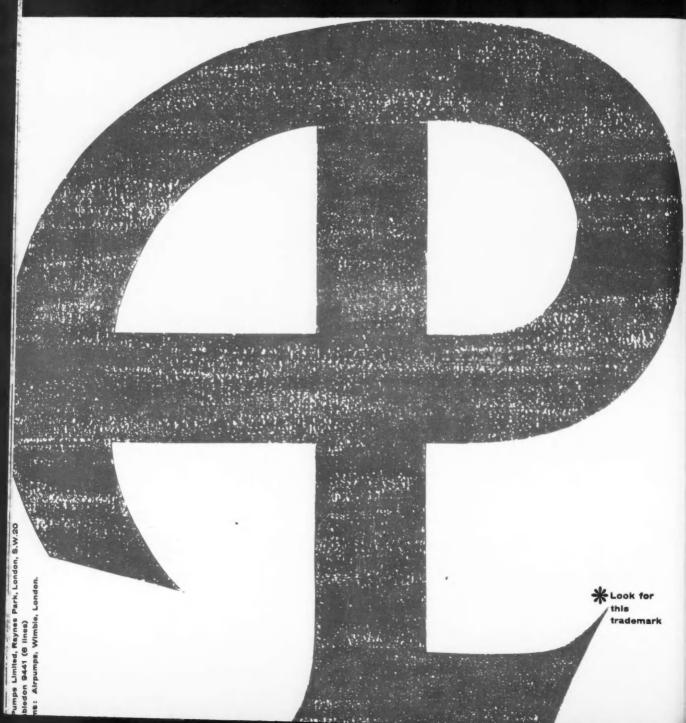
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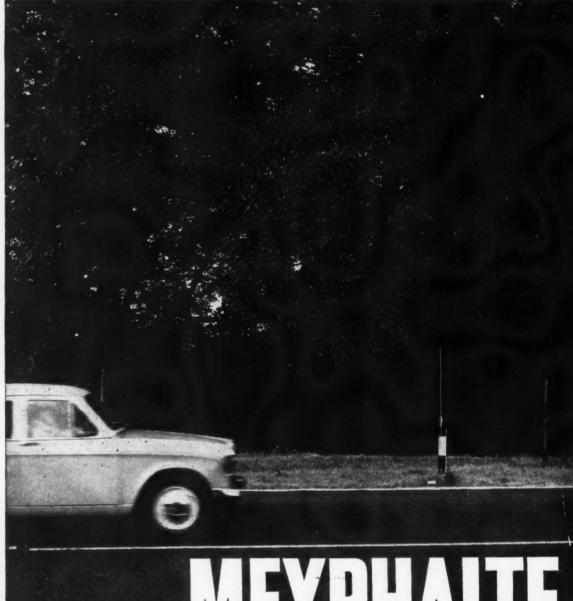
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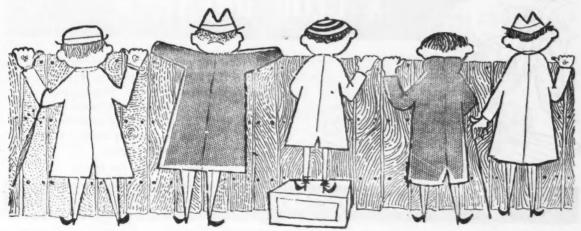
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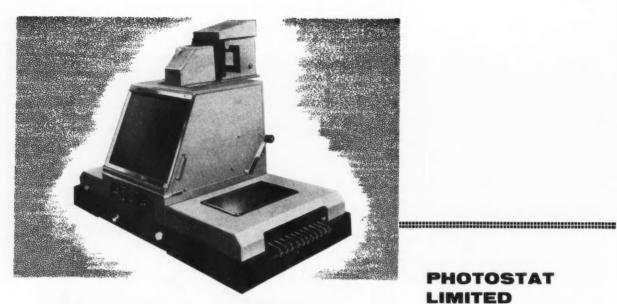
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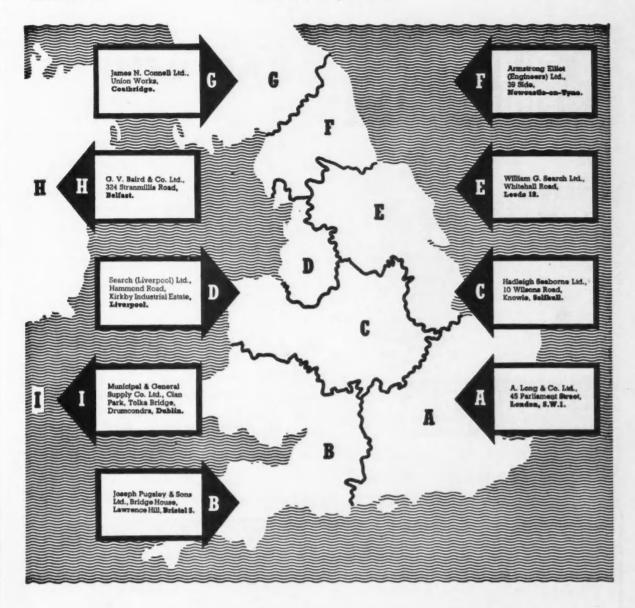
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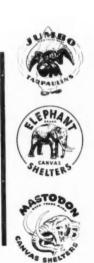
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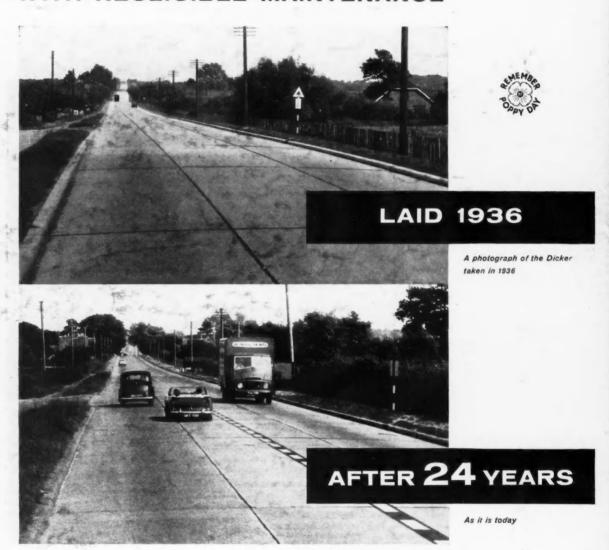
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